

**G.** 4

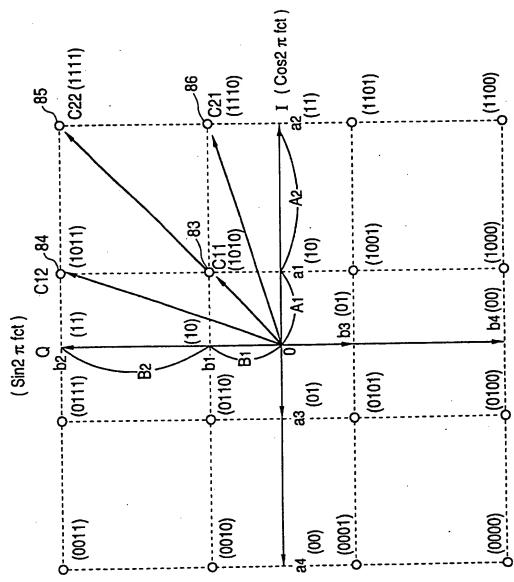


FIG. 5

Sheet 6 of 178

FIG. 6

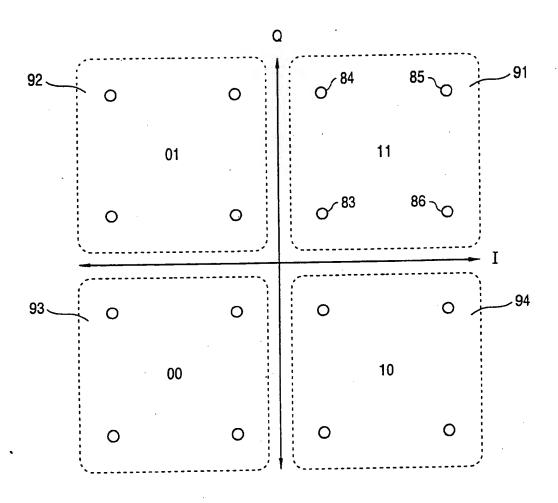
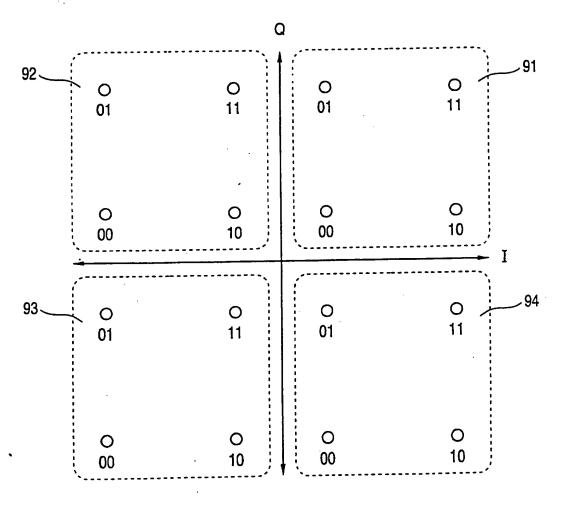


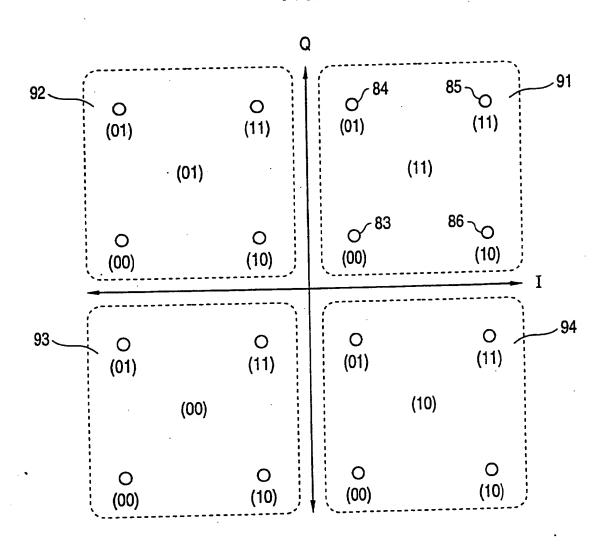
FIG. 7

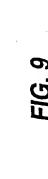


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FIG. 8





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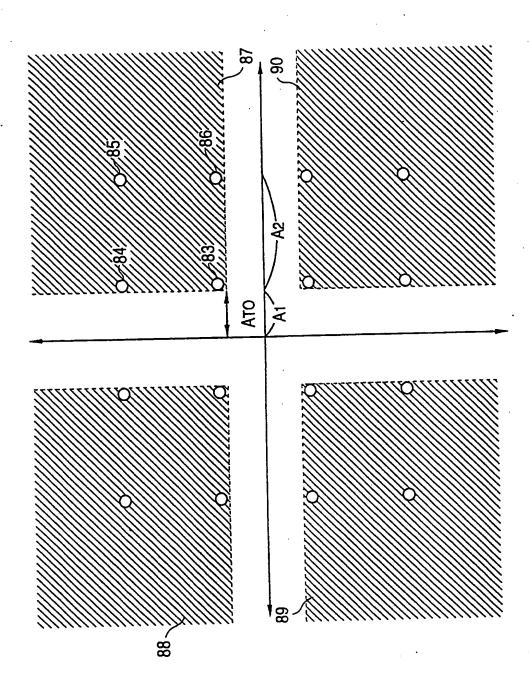
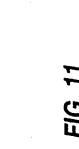
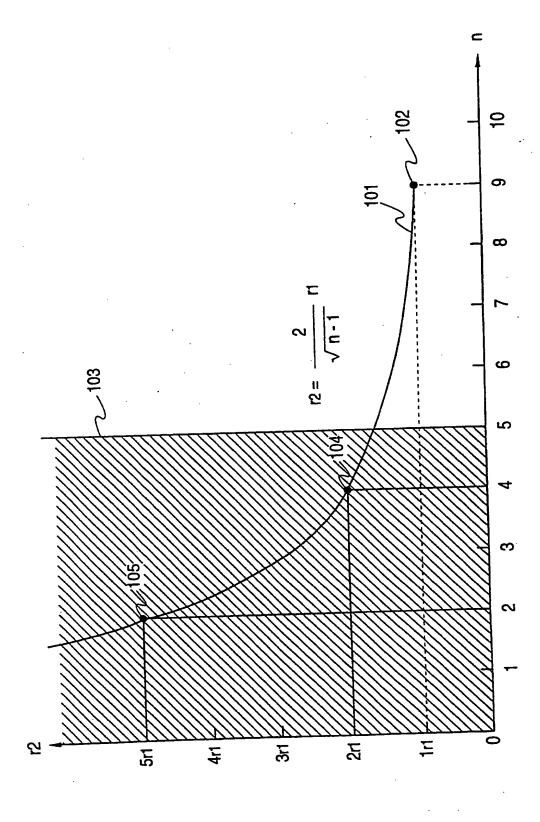


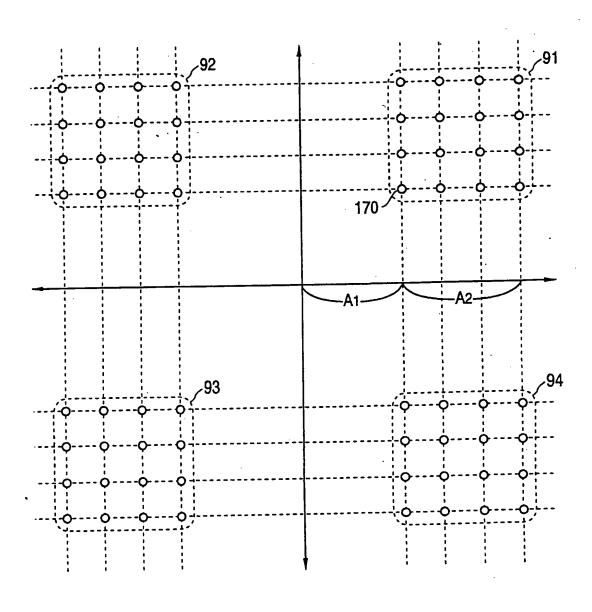
FIG. 10 A(16) 96 B<sub>2</sub> A(4) 95 Bi 93

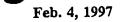


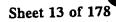


U.S. Patent Feb. 4, 1997

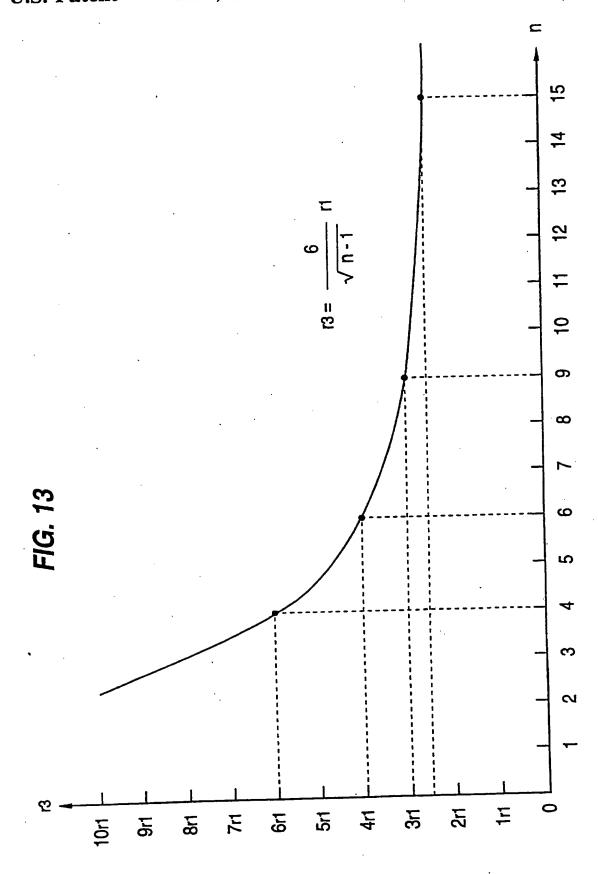
FIG. 12











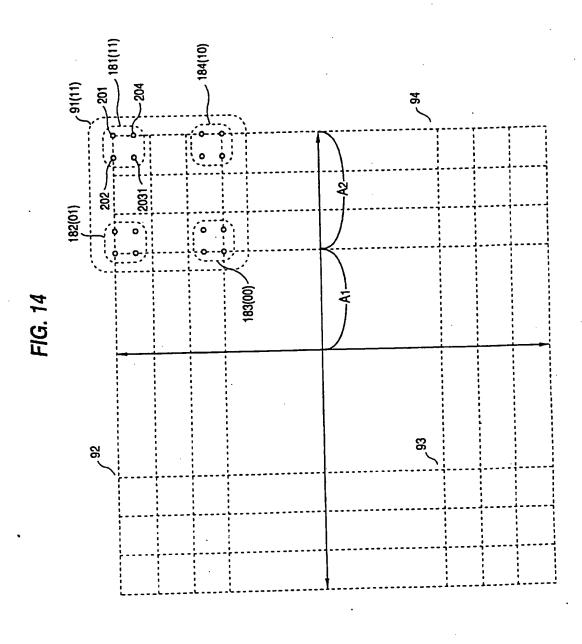
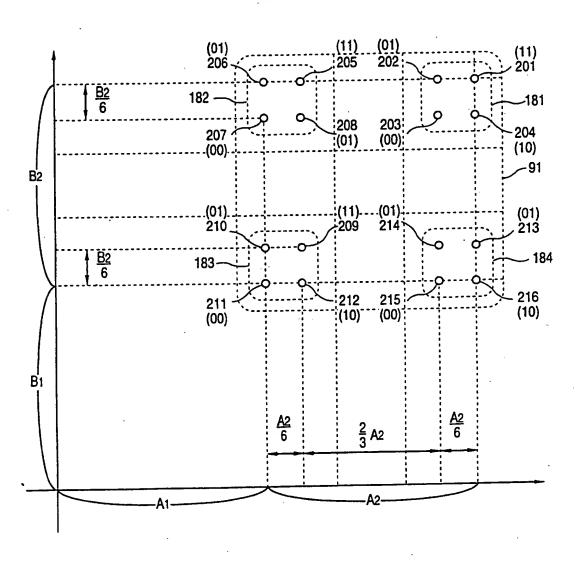
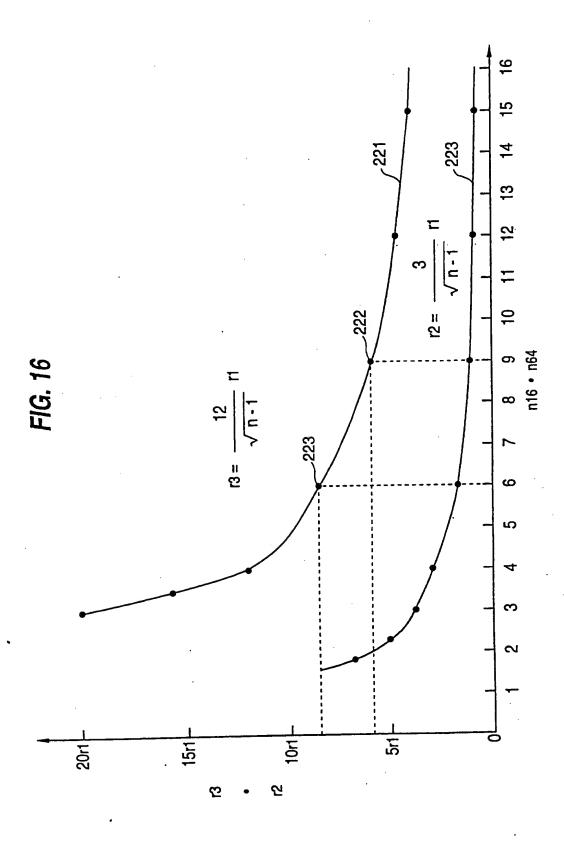
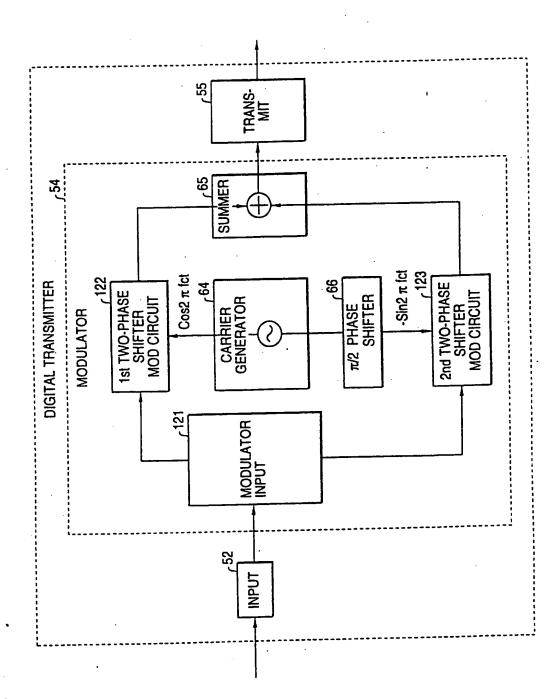


FIG. 15

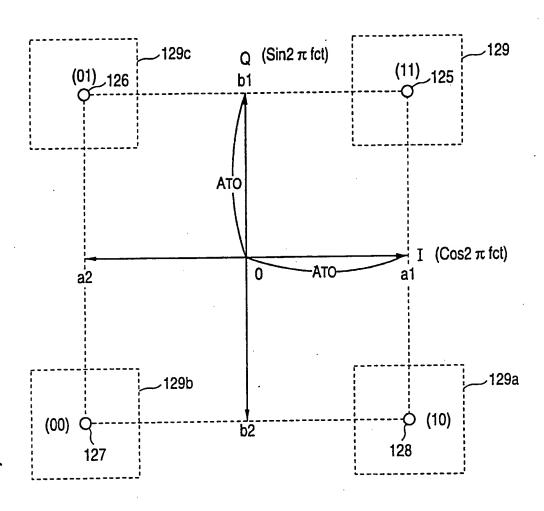


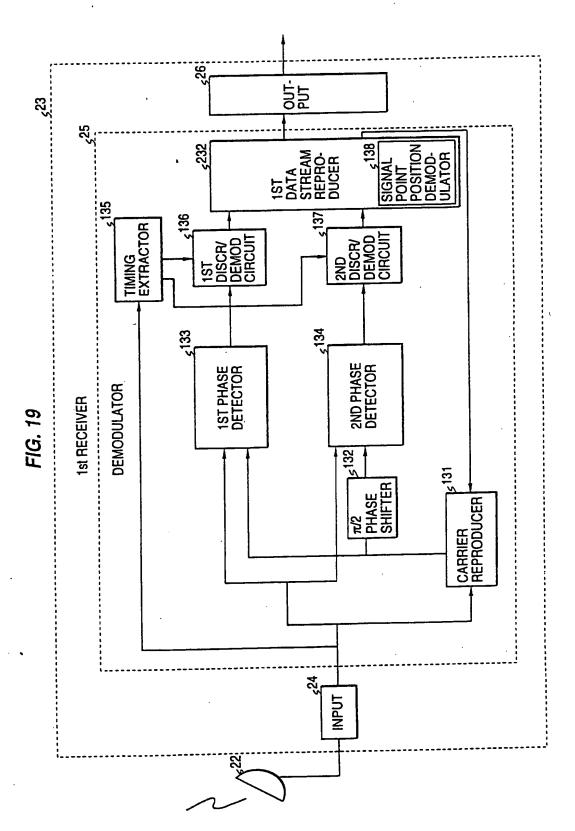


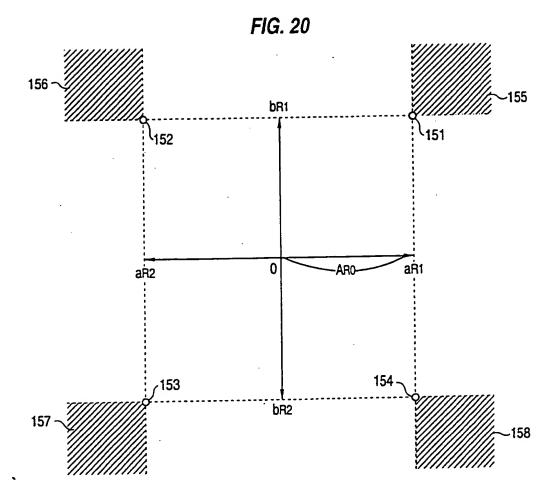


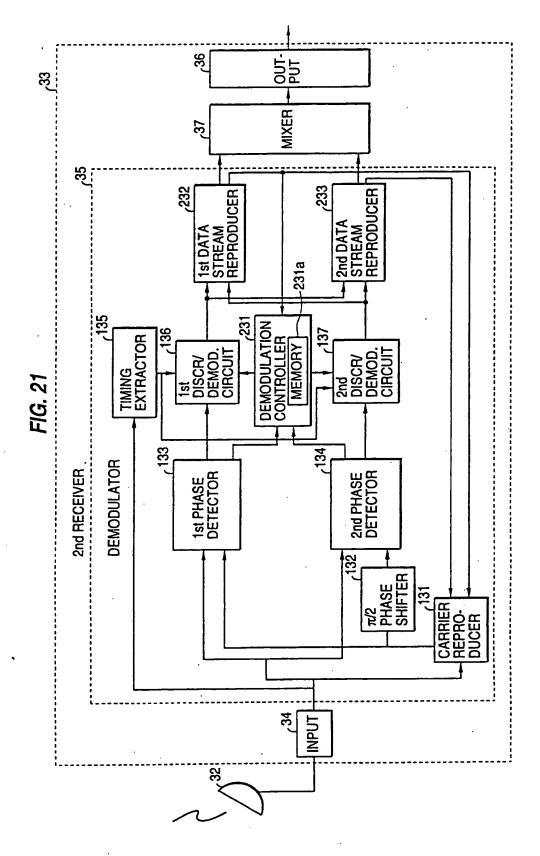
7G. 17

FIG. 18



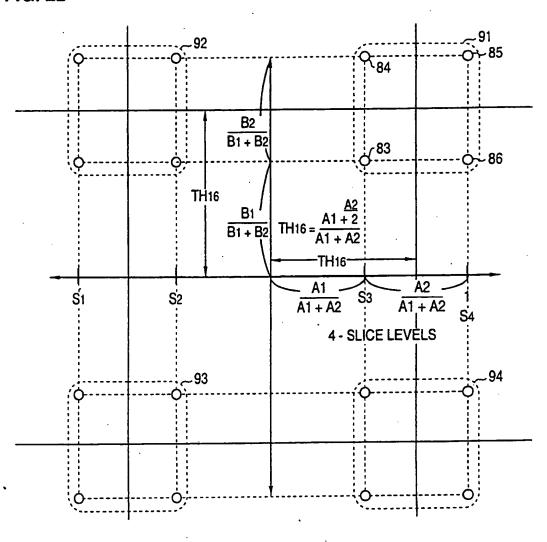






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FIG. 22



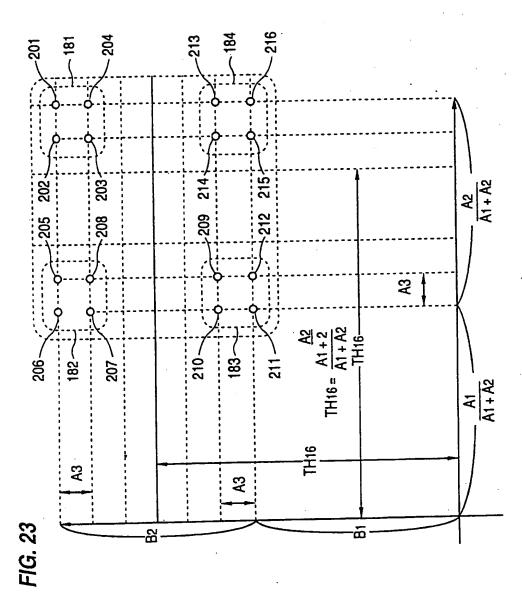
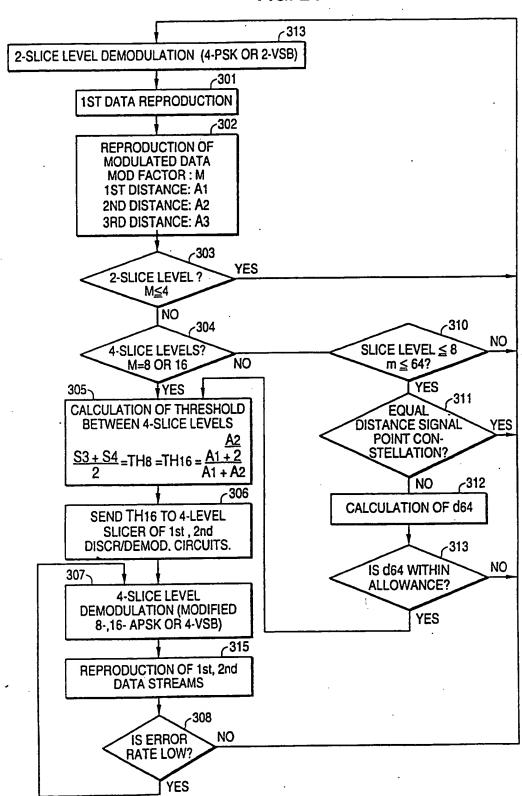
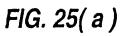
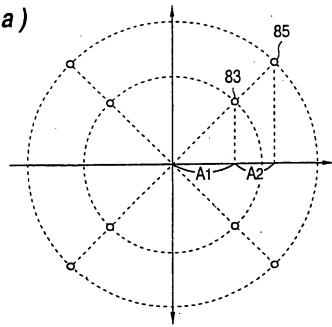




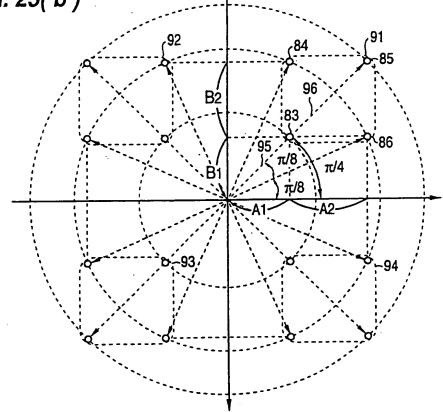
FIG. 24



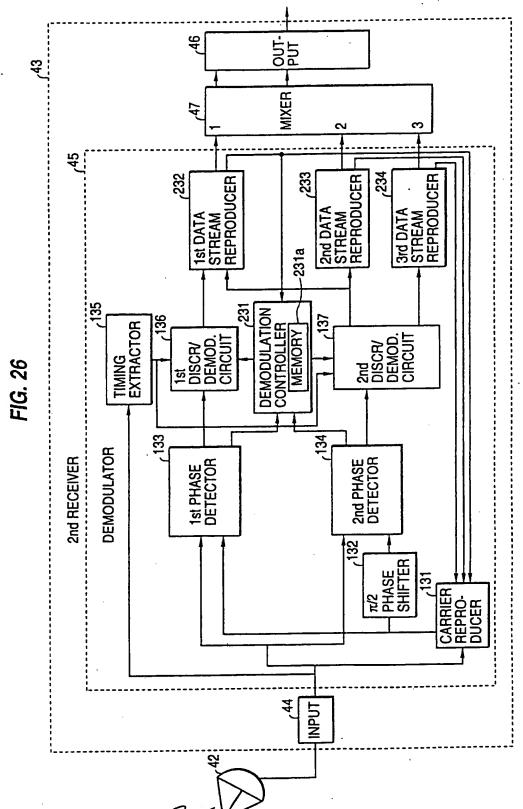




## FIG. 25(b)



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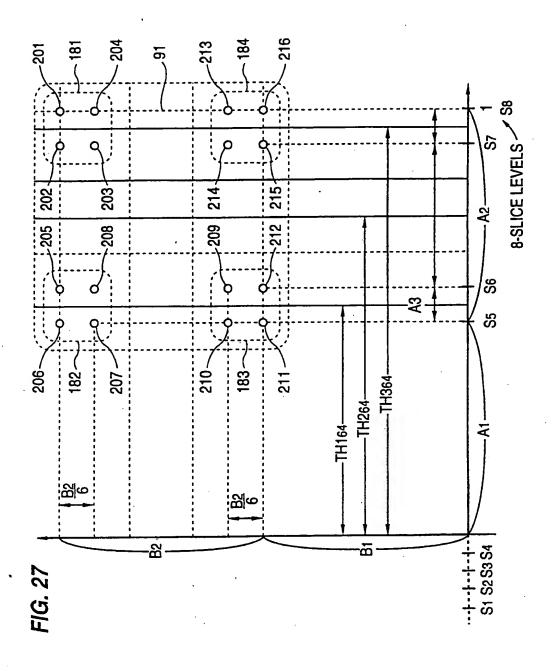
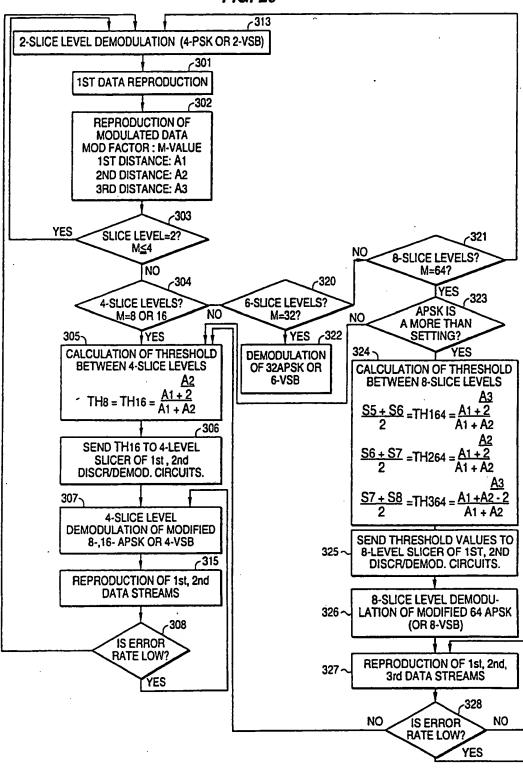
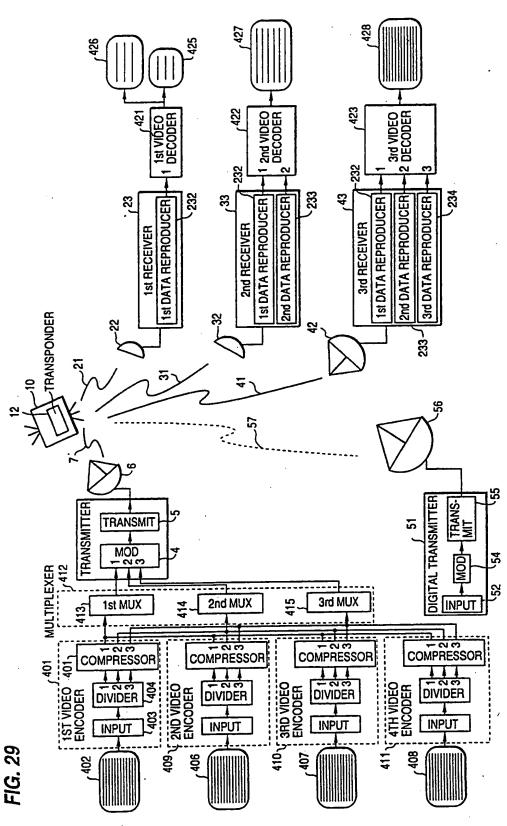


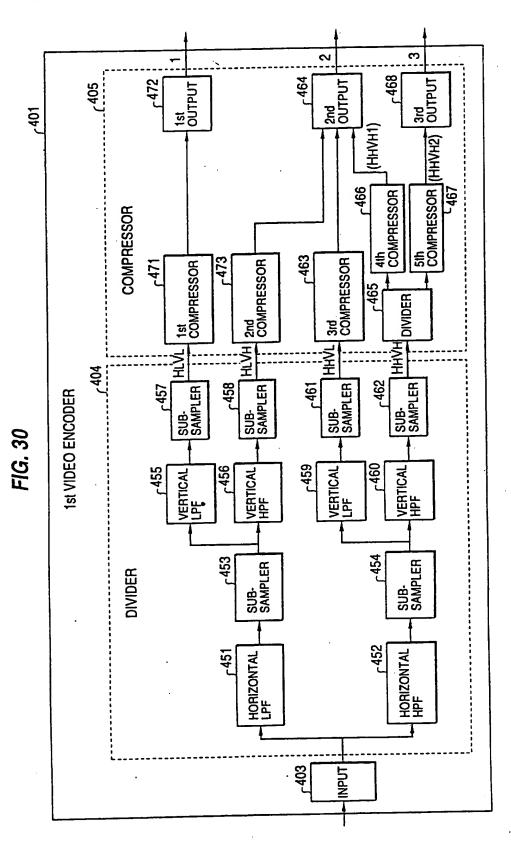
FIG. 28



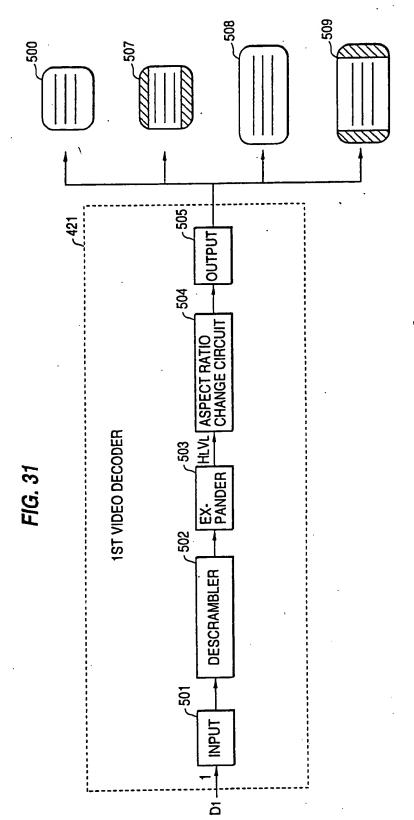
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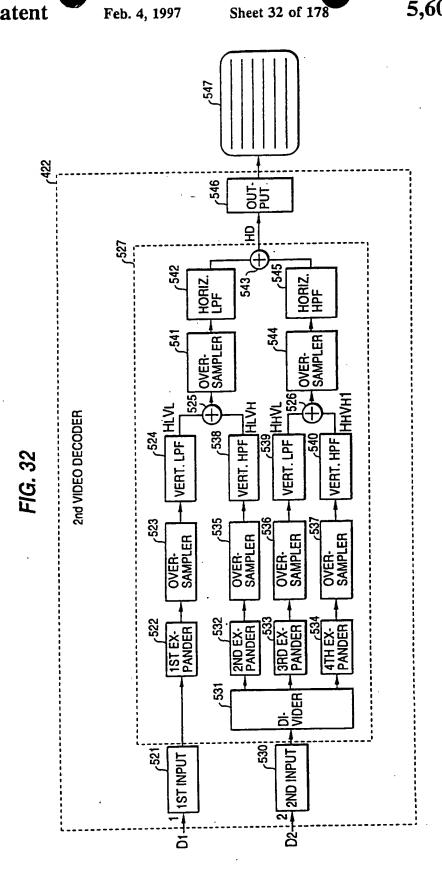


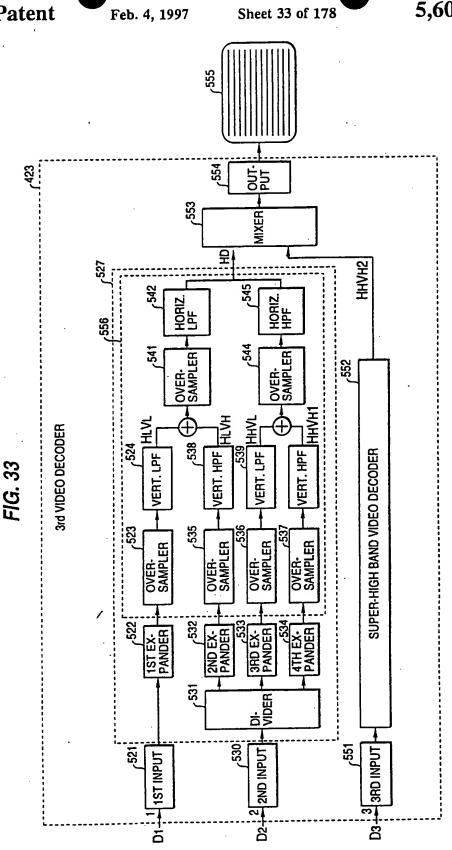


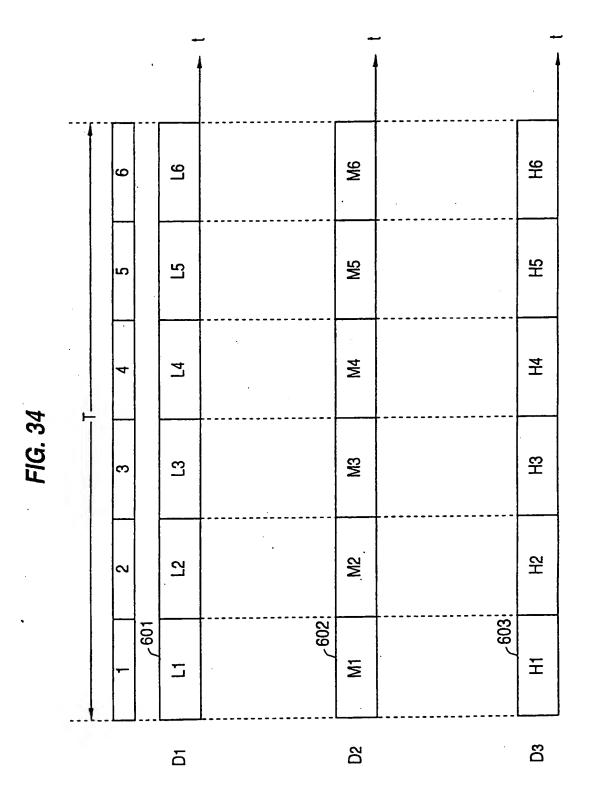


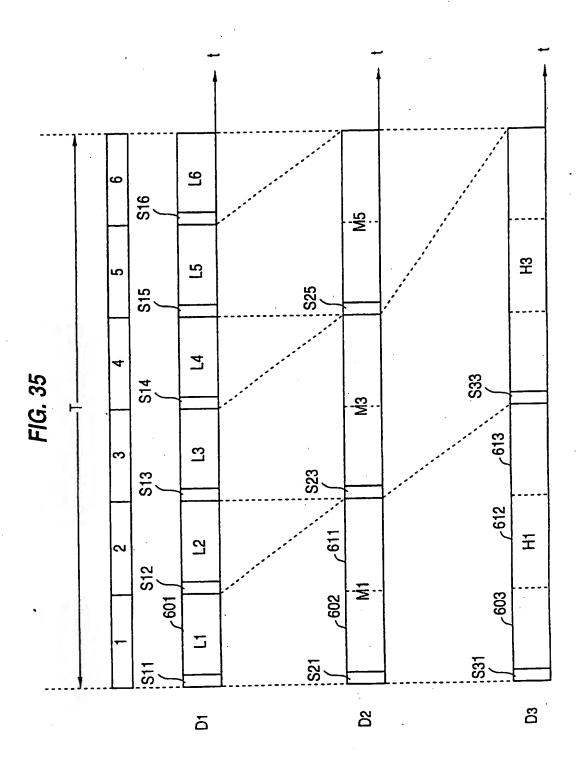
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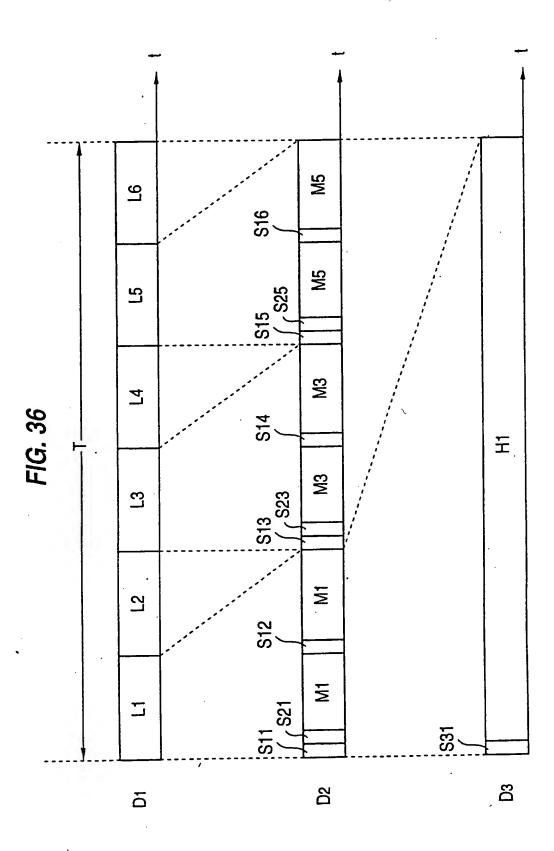


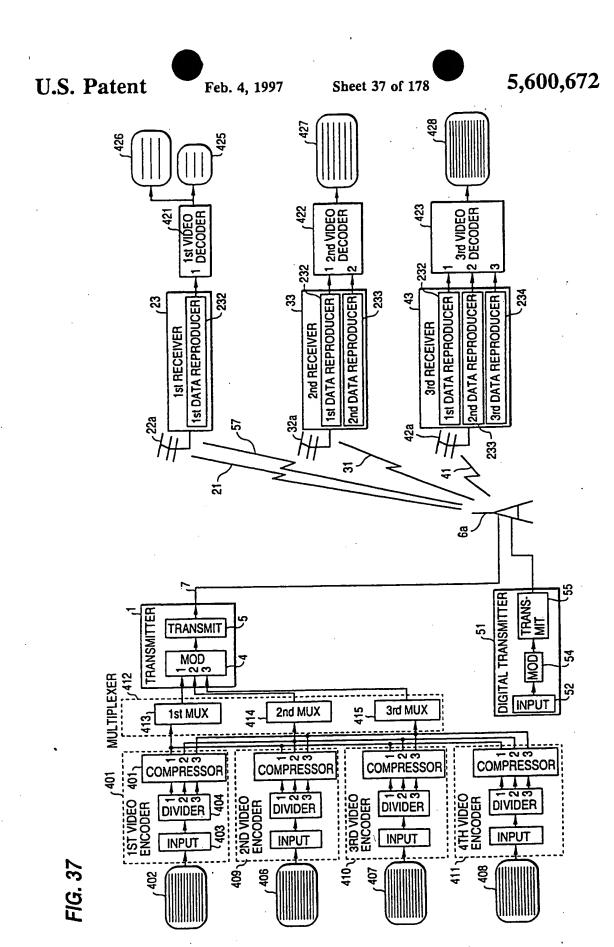




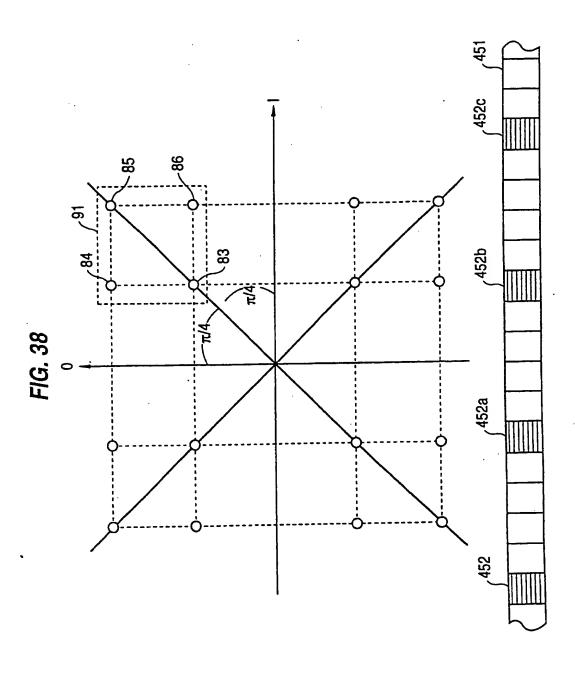




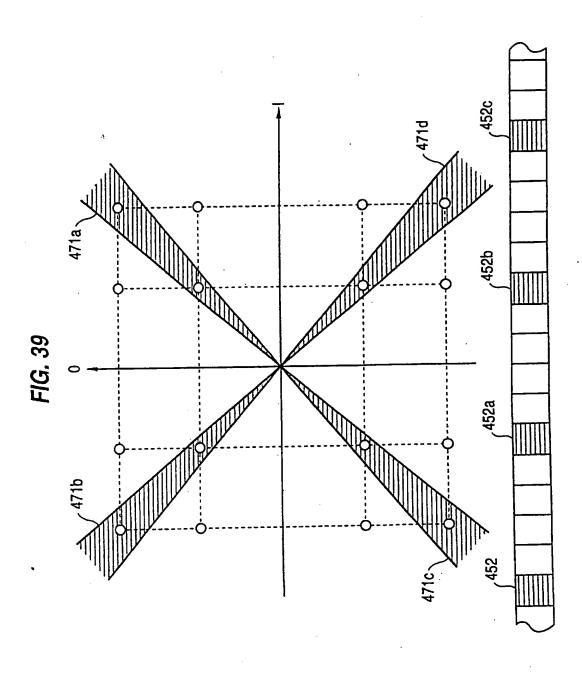




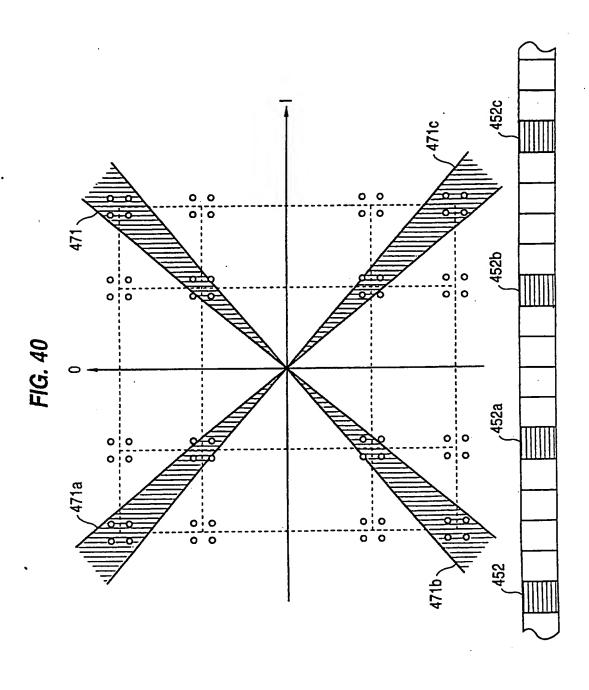


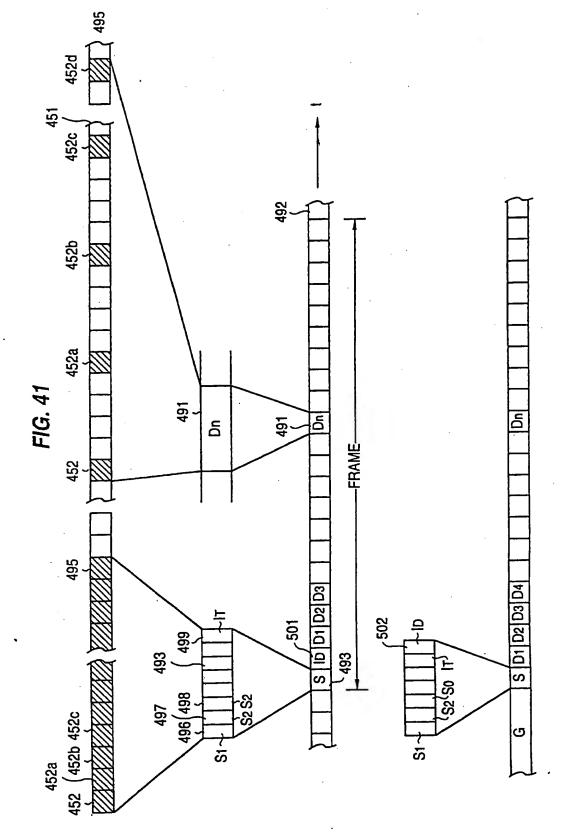


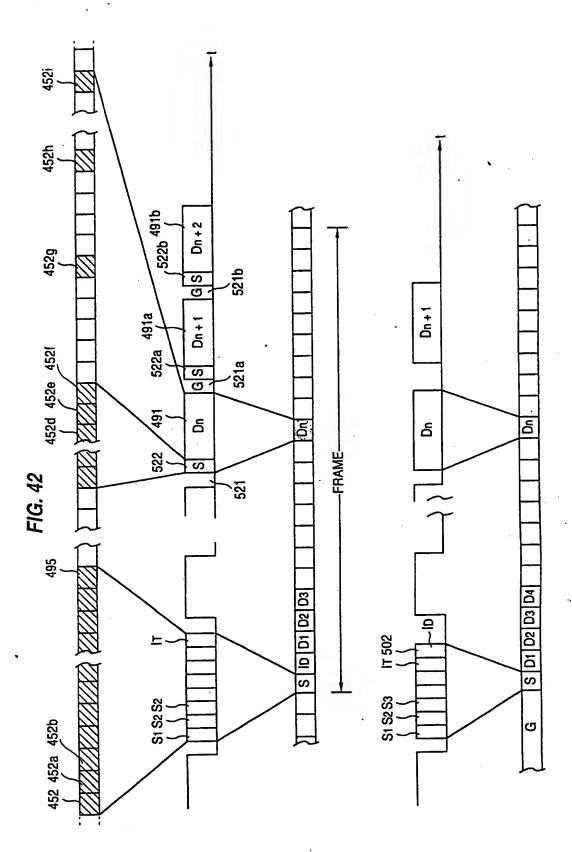


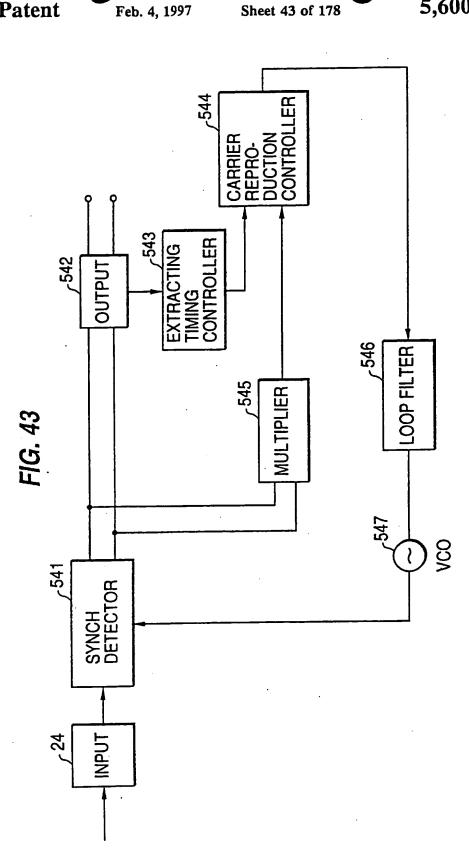


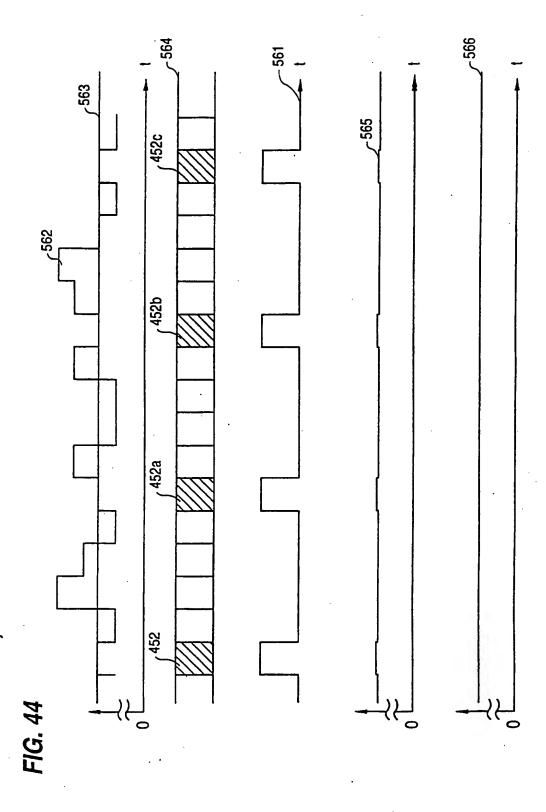


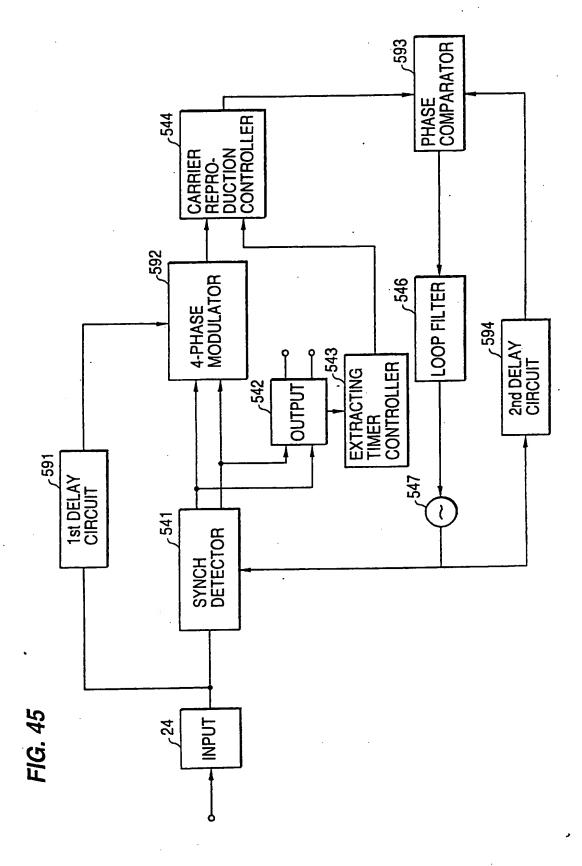


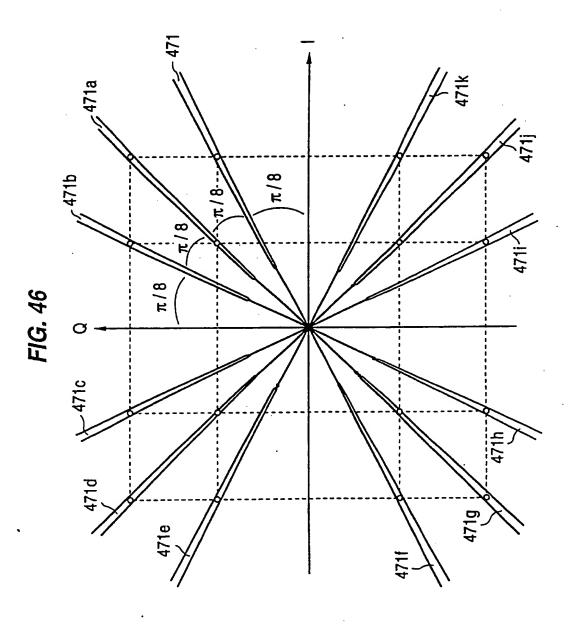




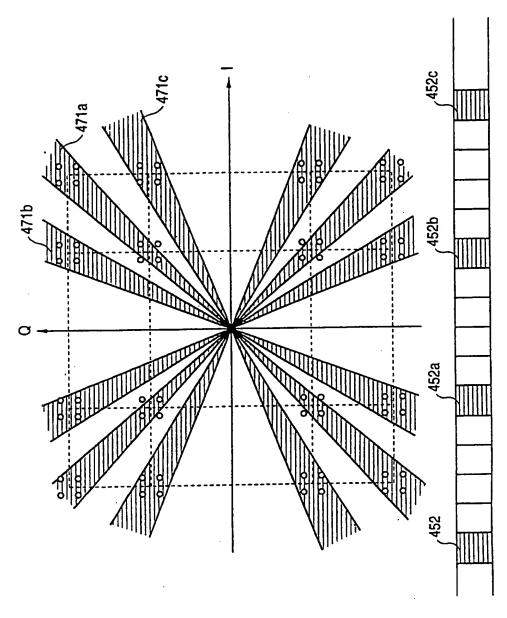












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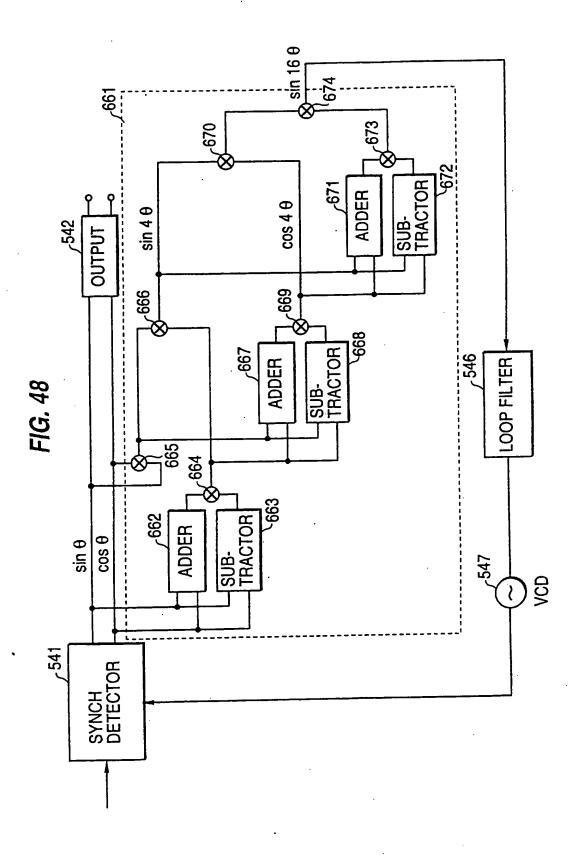
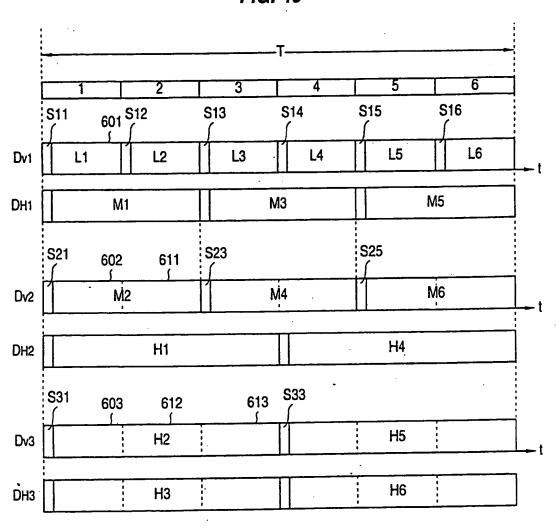
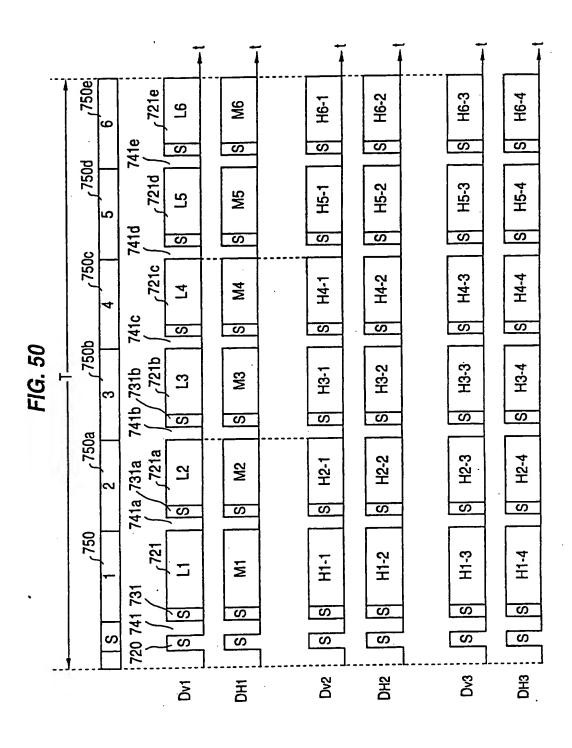
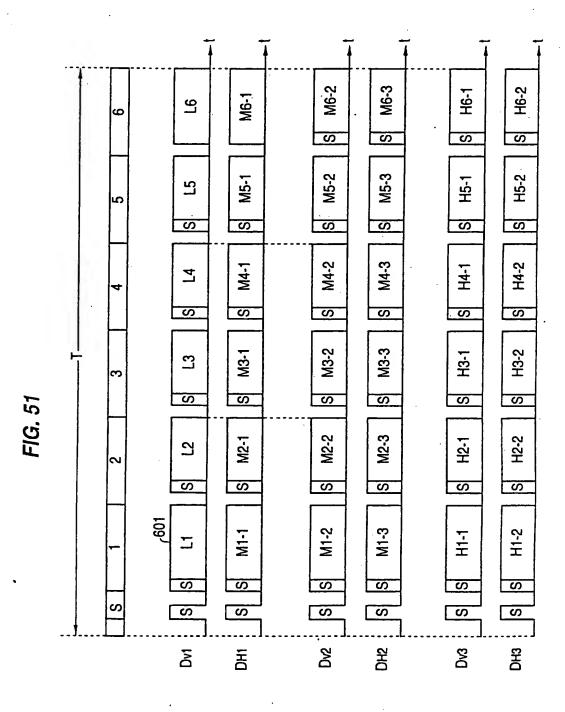


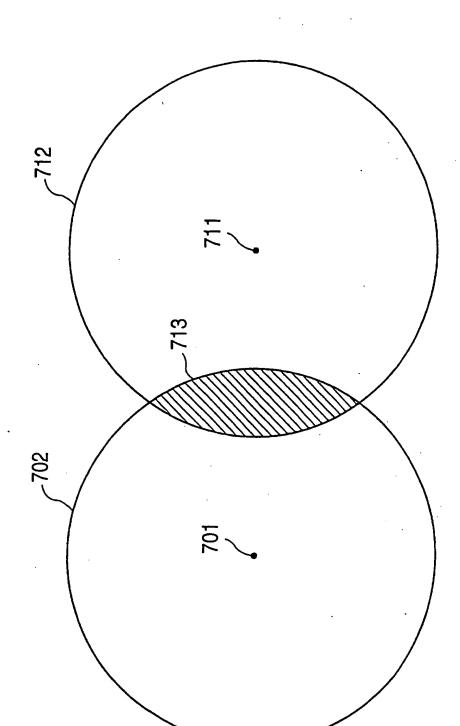
FIG. 49



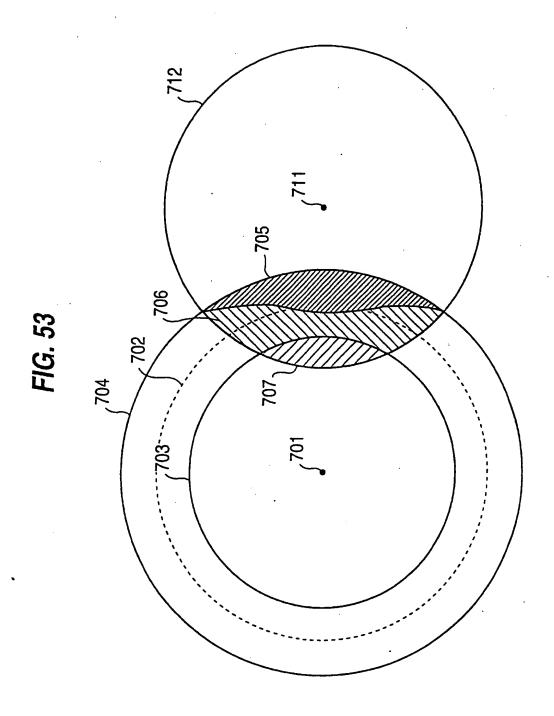




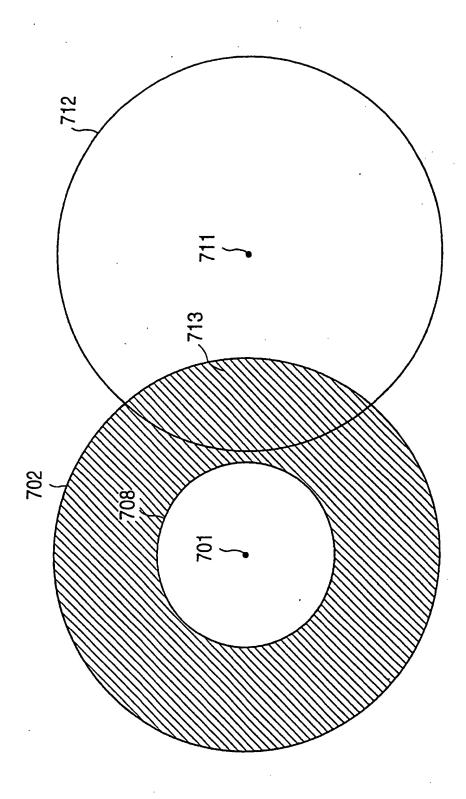




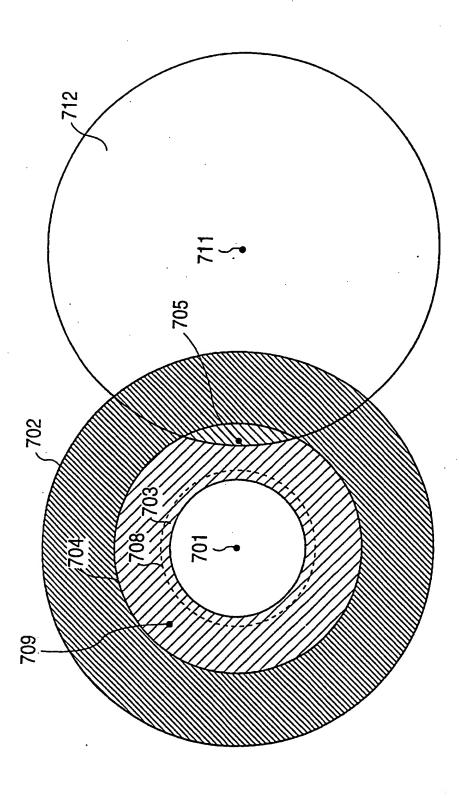


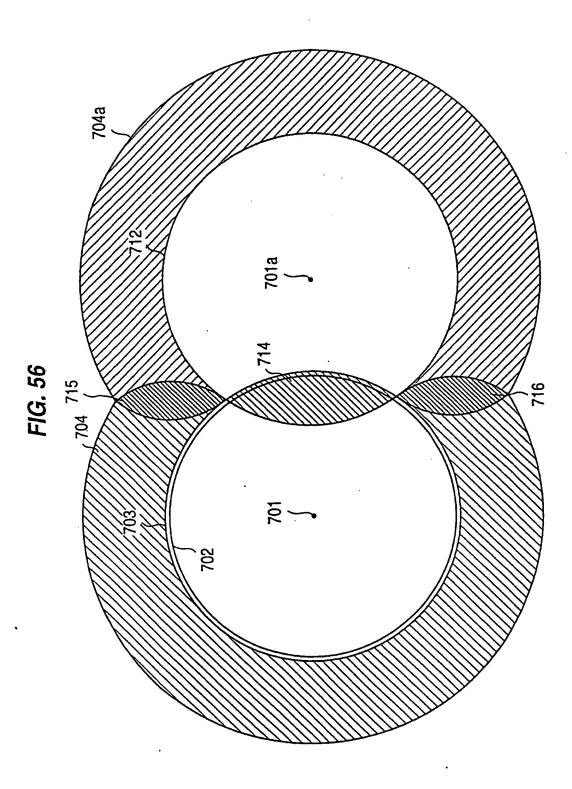






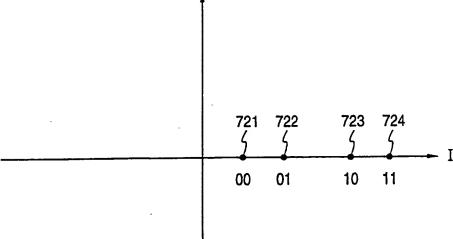




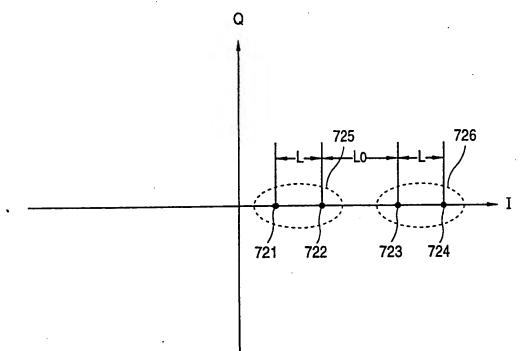


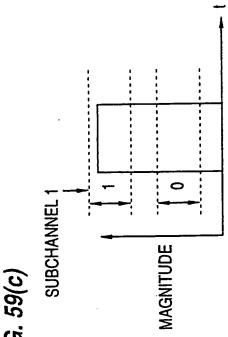


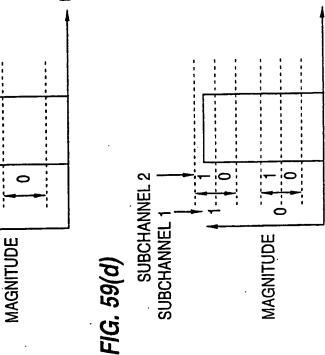
U.S. Patent

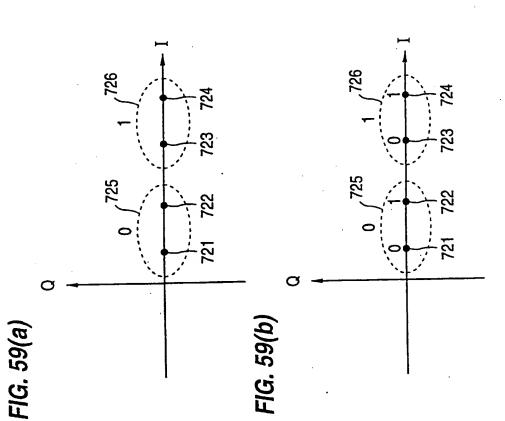


## FIG. 58

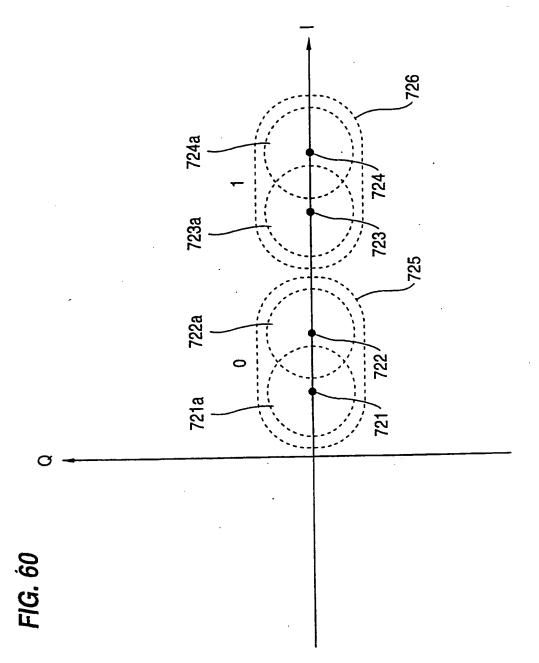


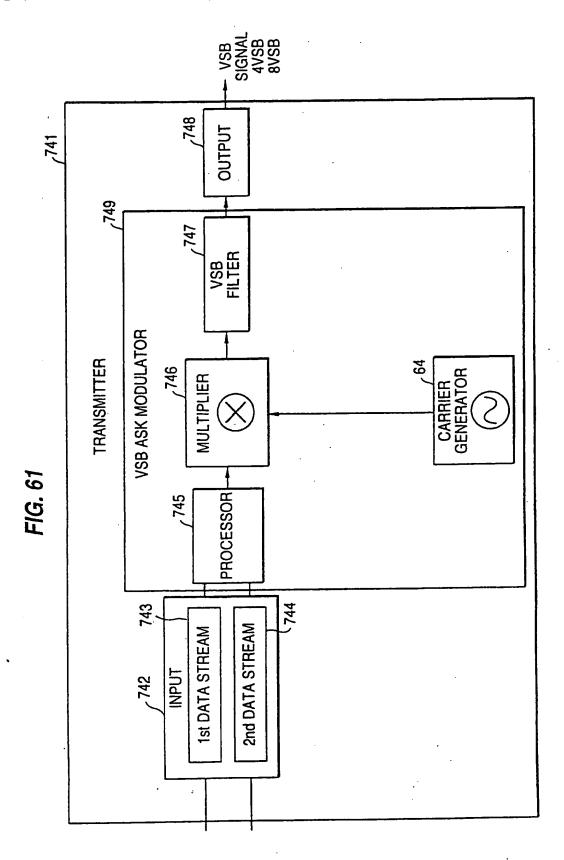


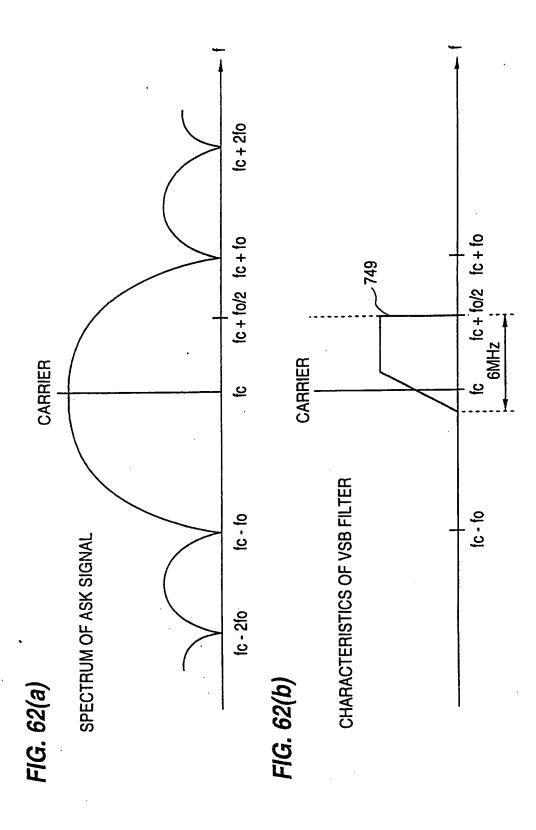




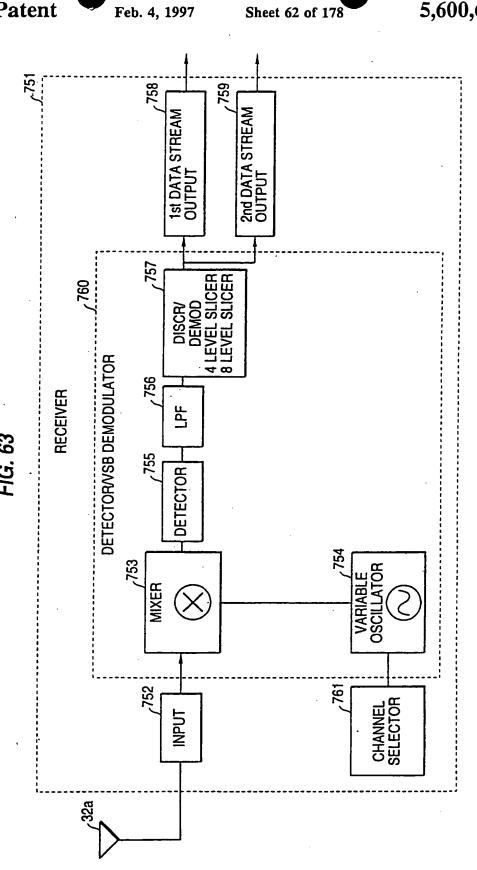


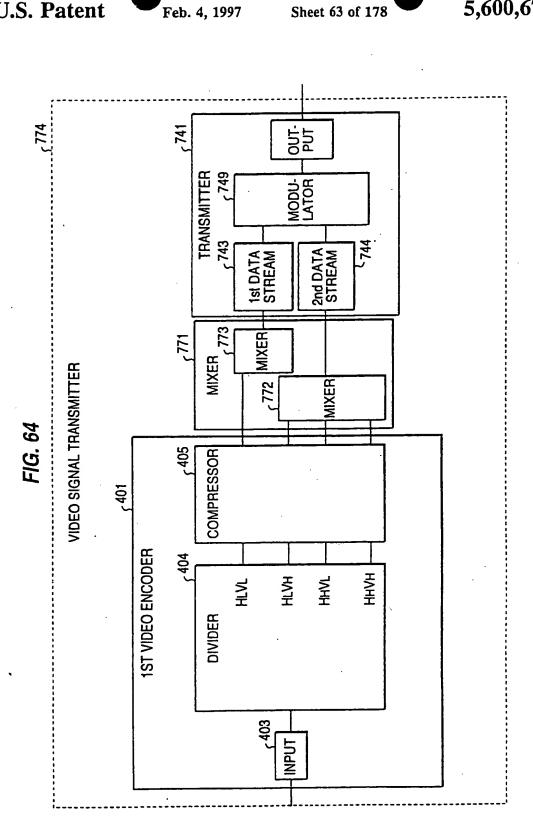




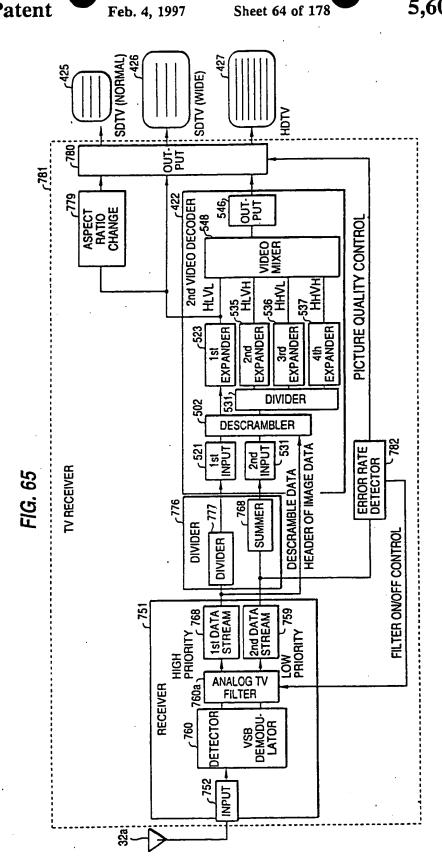


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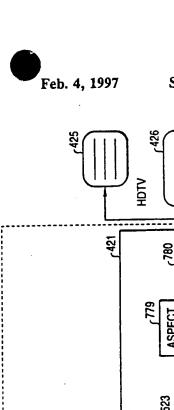
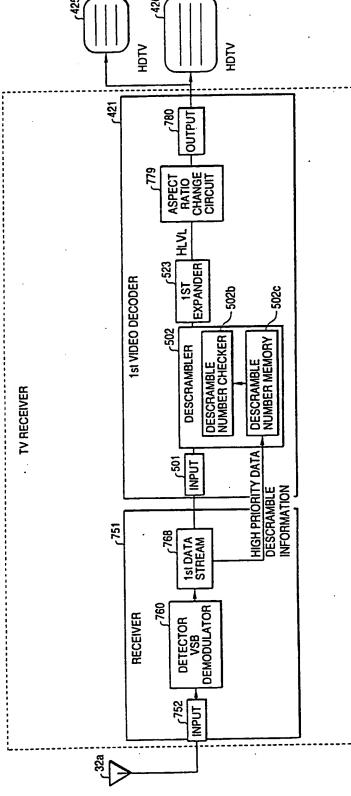
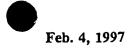
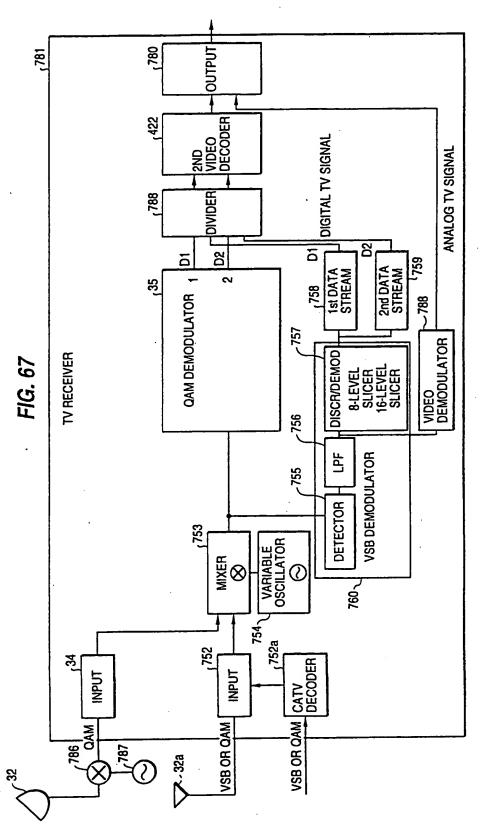
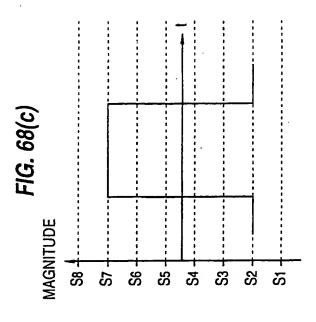


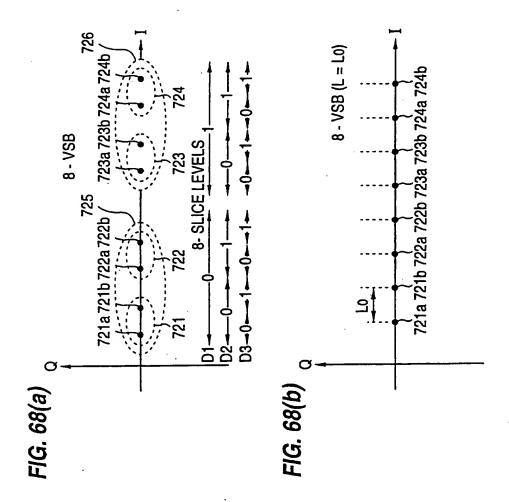
FIG. 66

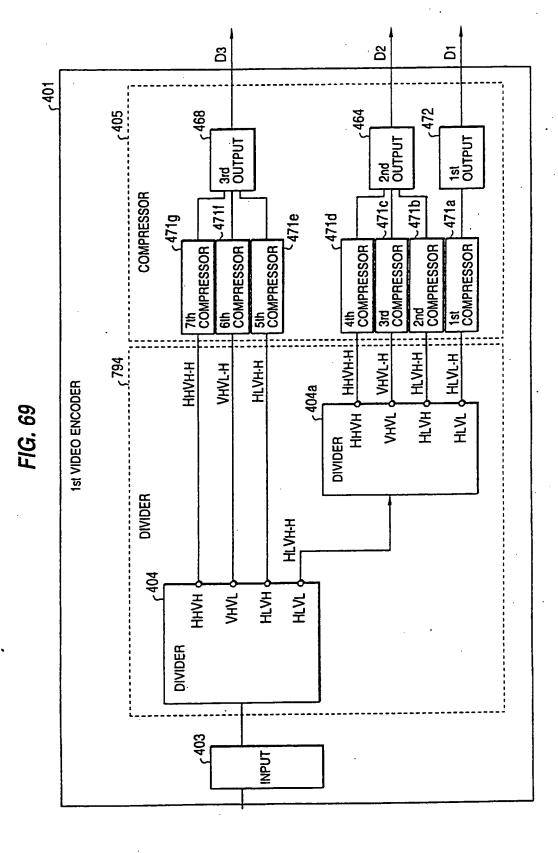


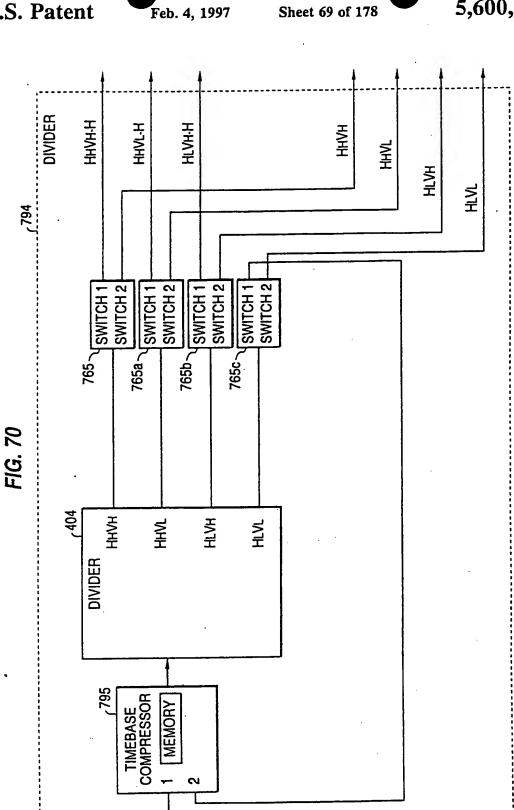




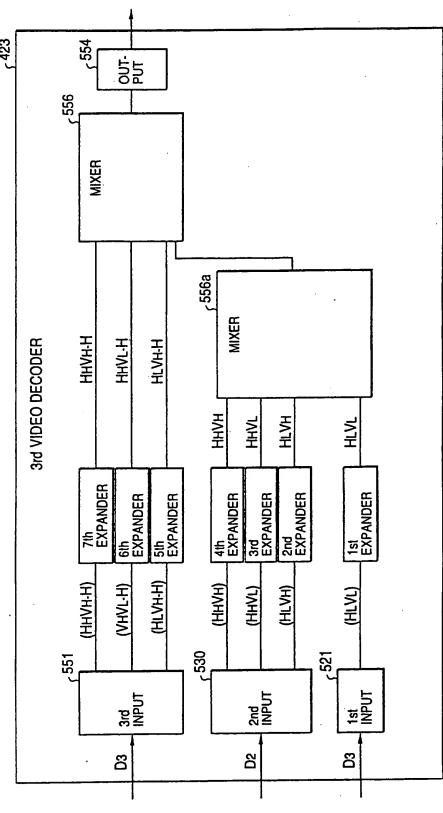






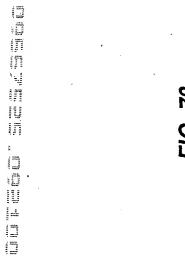






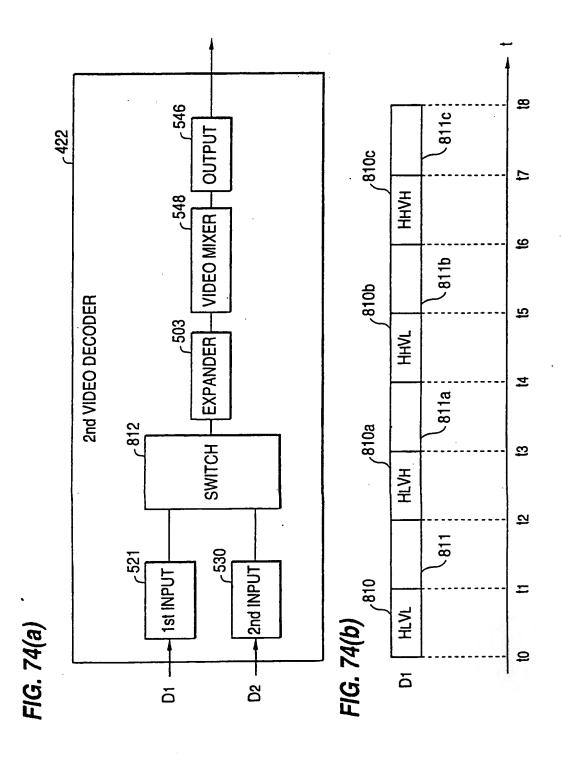
99. F MIXER H.YH H/ .765a .765b , 765c - SWITCH SWITCH 2 SWITCH 3rd VIDEO DECODER 522f HHVH-H ,522d HLVH-H .522е НнVL-Н 522c HHVH 522b HHVL 522a HLVH 7th EXPANDER 1st EXPANDER 5th EXPANDER 3rd EXPANDER 6th EXPANDER 4th EXPANDER (Нн/н-Н) (VHVL-H) (HAHH) (HML) (HLVH) 530 521 551 1st INPUT 2nd INPUT 22 23 ස

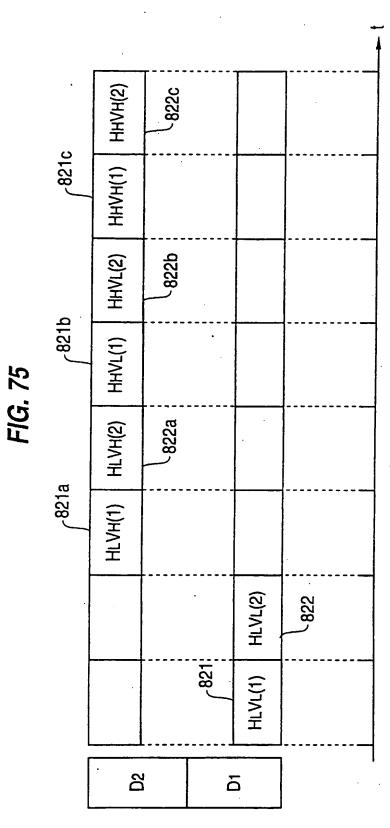
FIG. 72



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		D1 HLVL HHVL HHVH	HLVL HLVH HHVL	HLVL HLVH HHVL HHVH TIMING 1







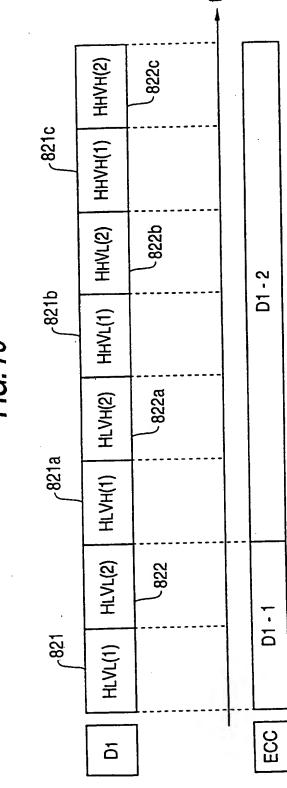
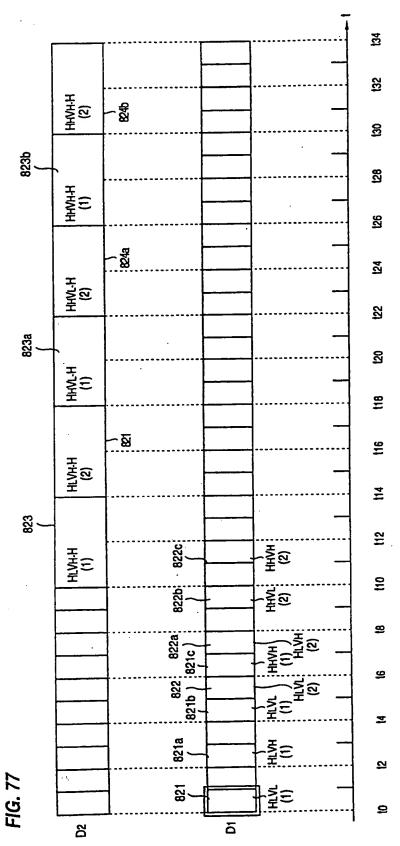
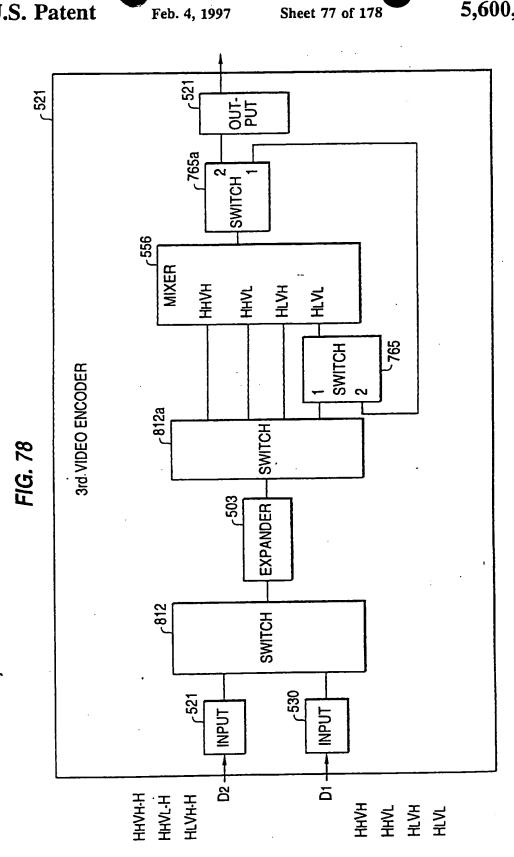
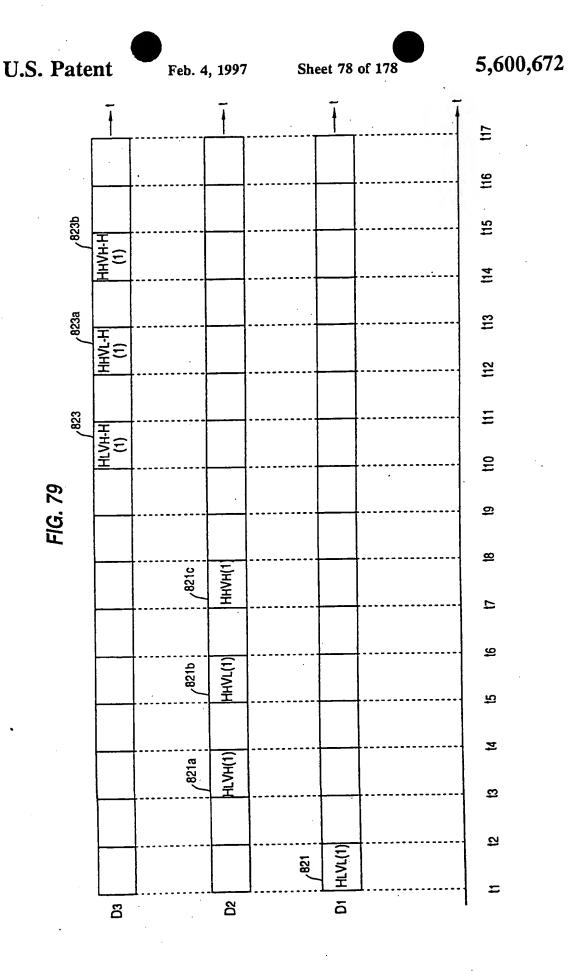


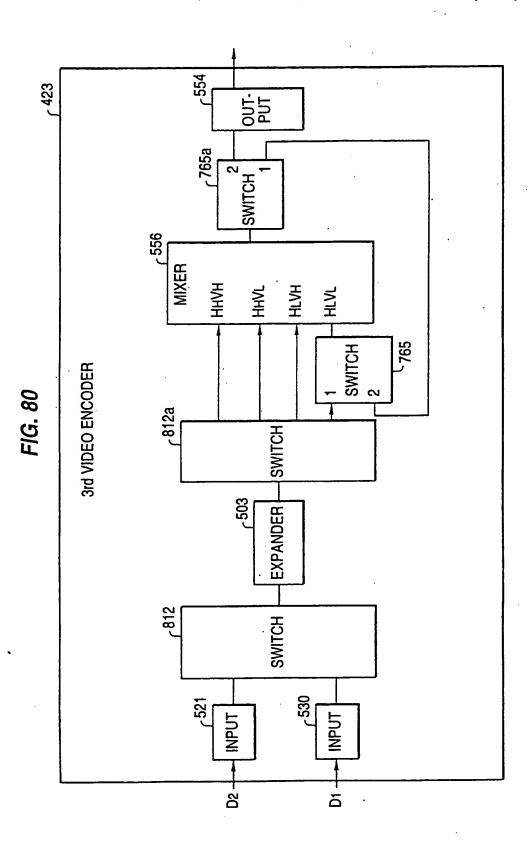
FIG. 76

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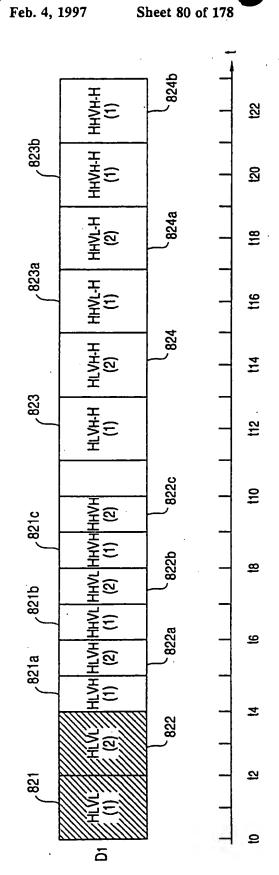


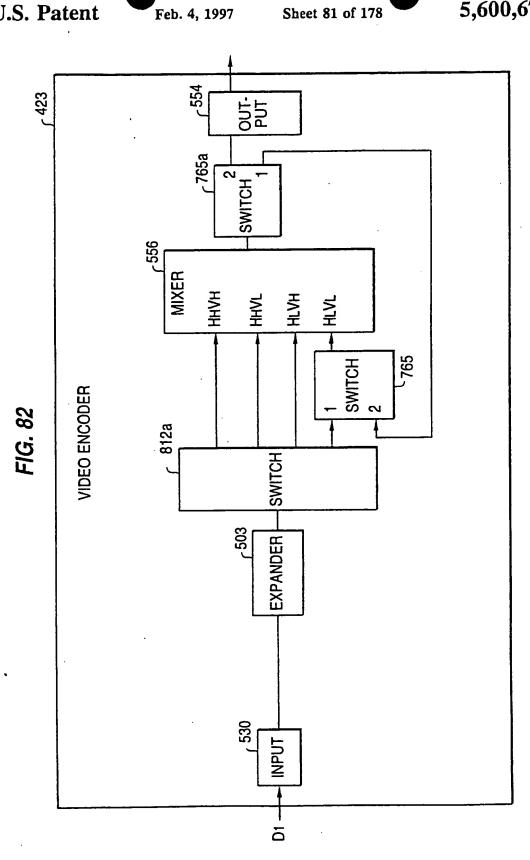




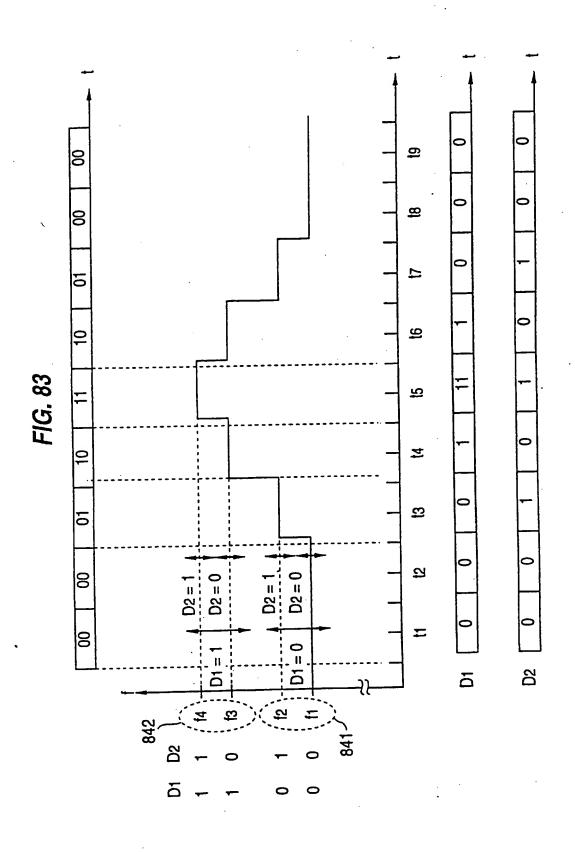
U.S. Patent

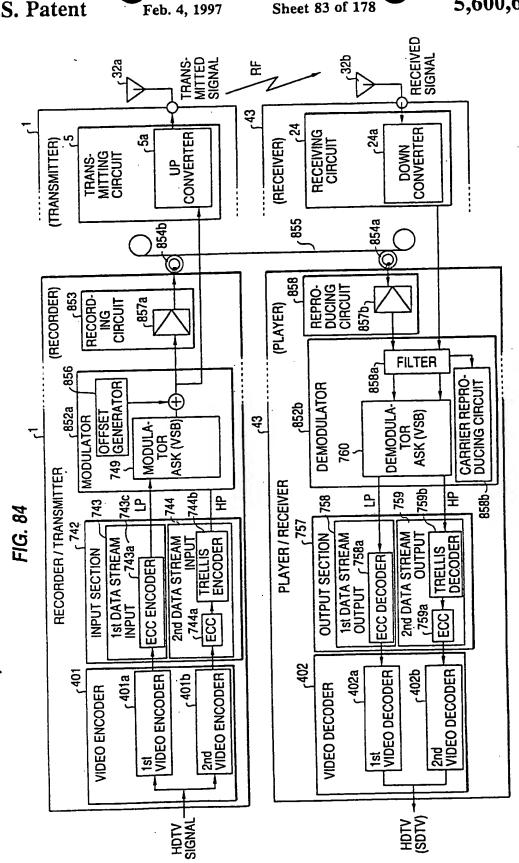


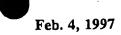


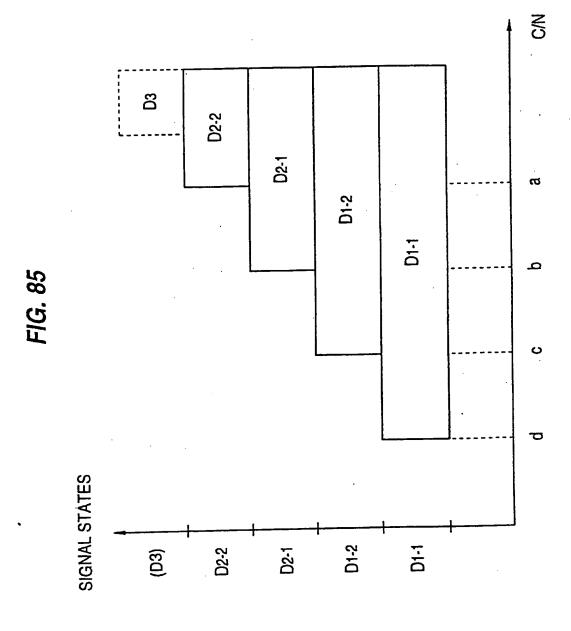


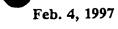


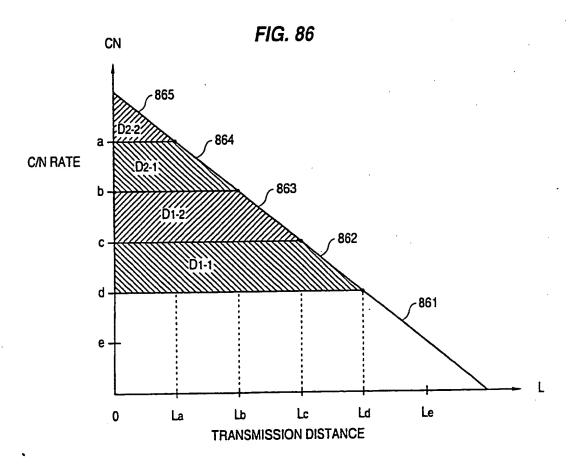


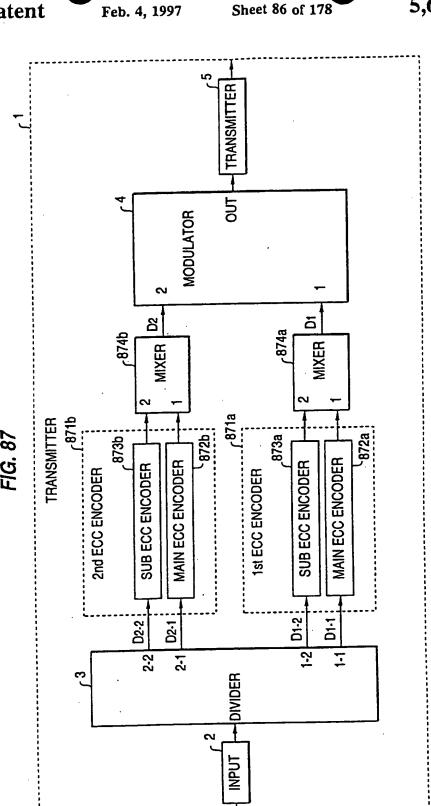












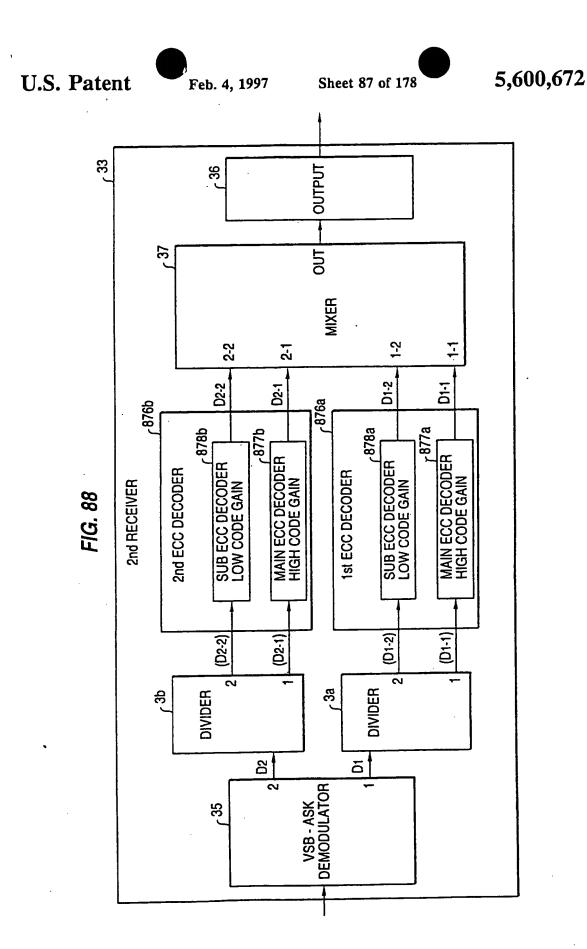
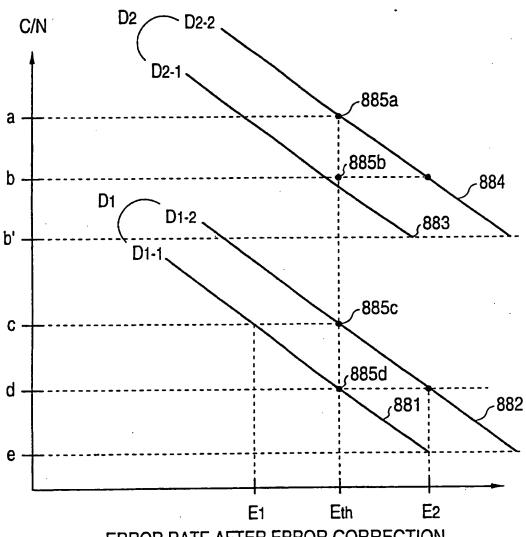
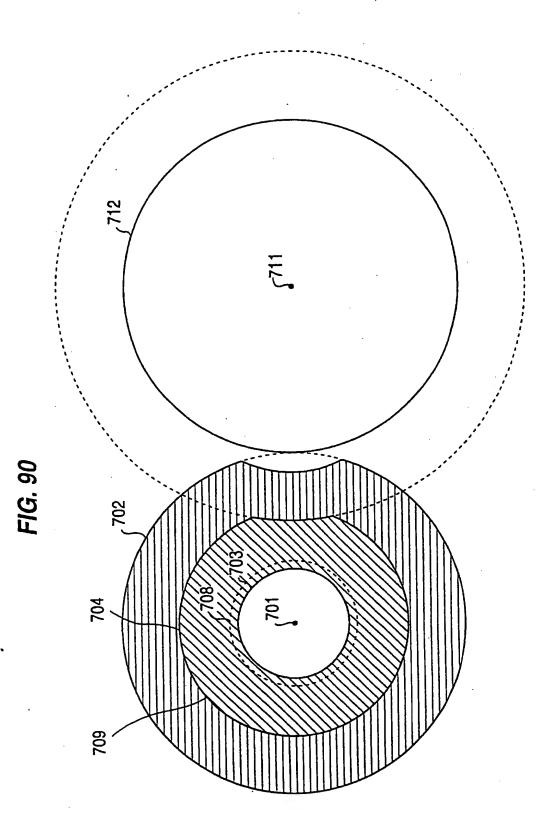


FIG. 89



ERROR RATE AFTER ERROR CORRECTION





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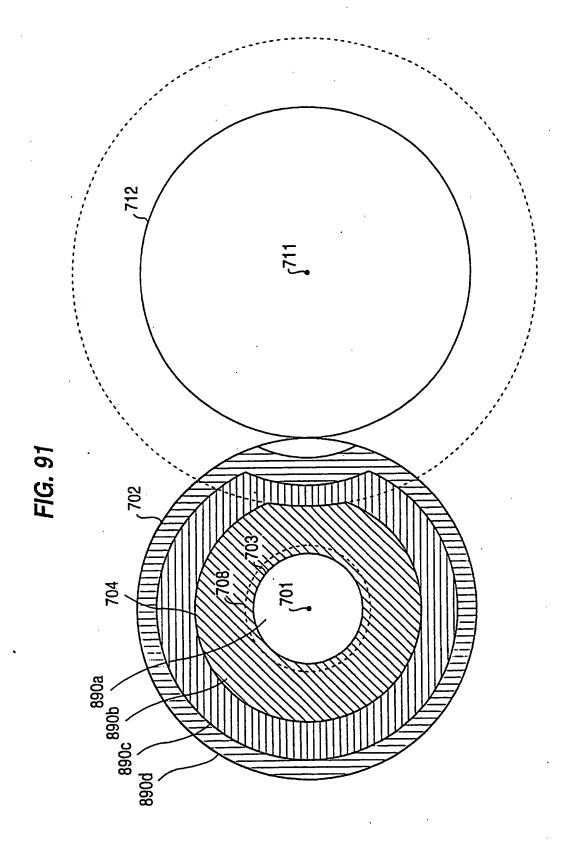
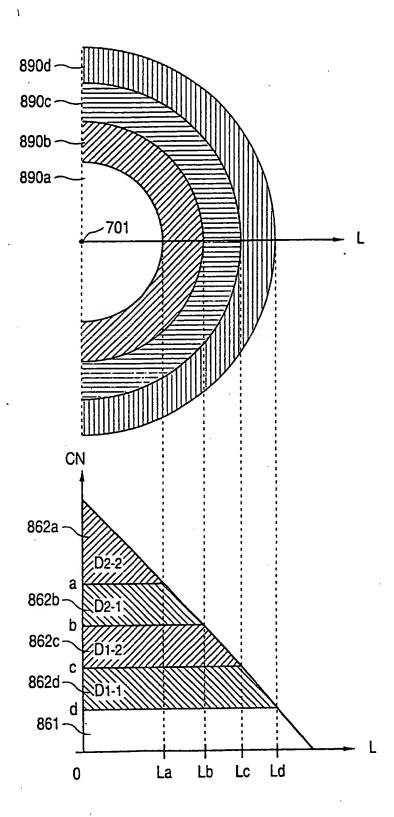
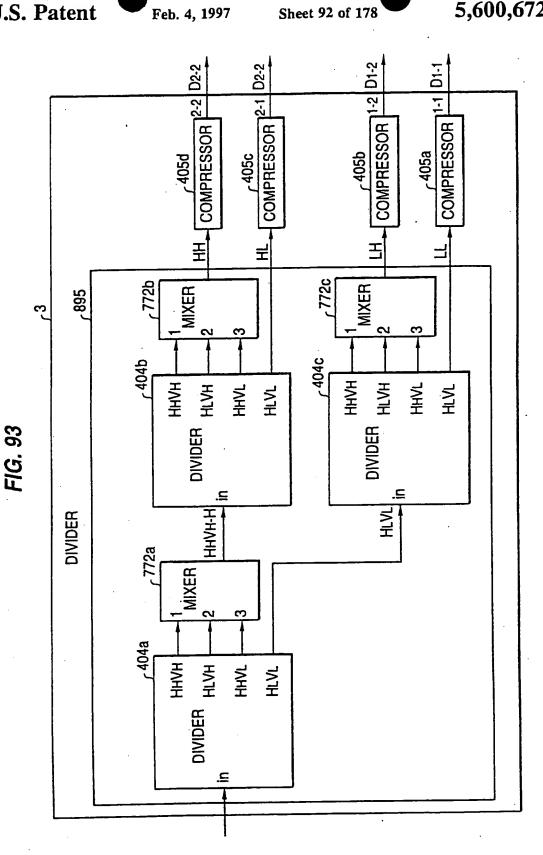
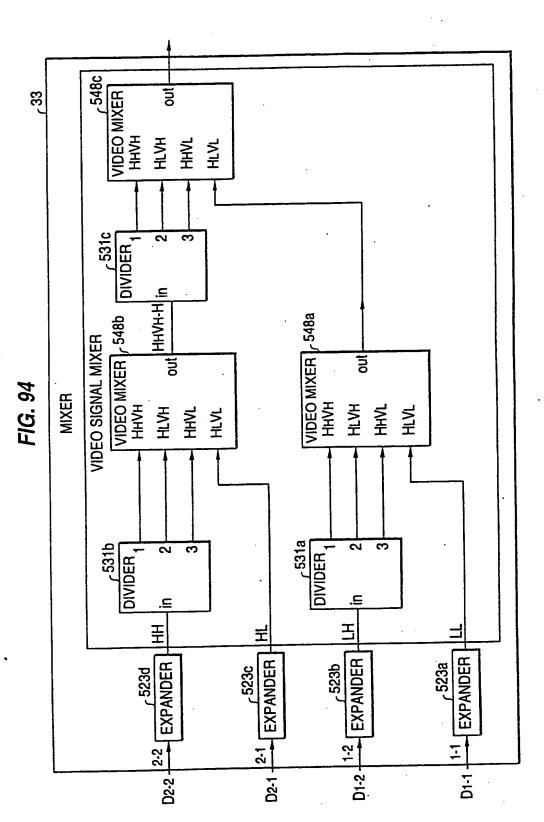


FIG. 92

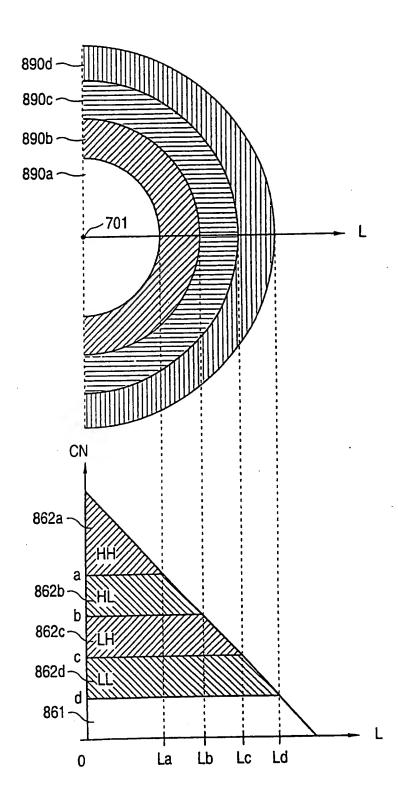


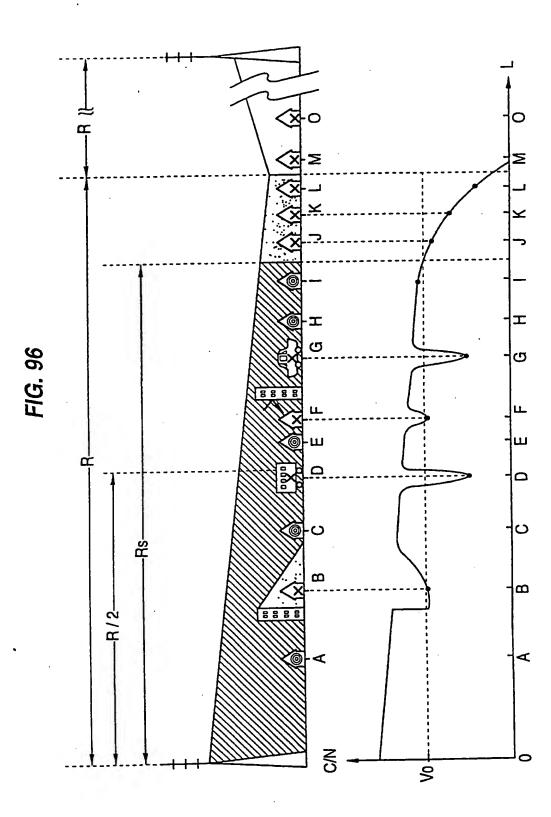




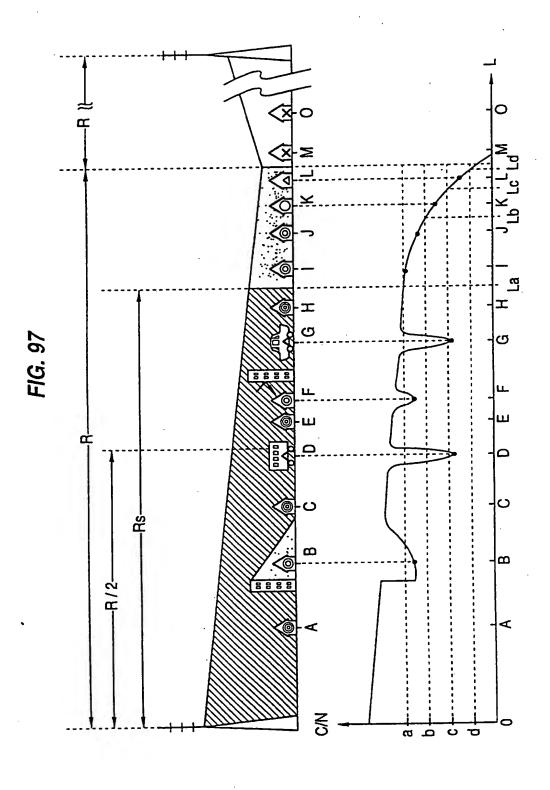
Feb. 4, 1997

FIG. 95





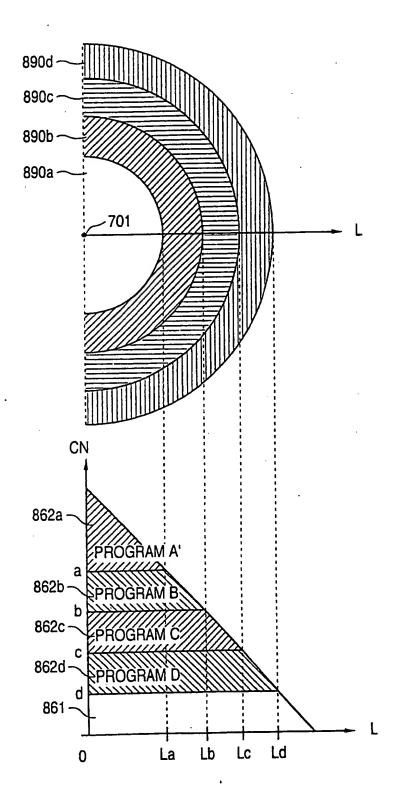
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FIG. 98



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FIG. 99 -85a -84b 84a--85 2δ 86 -83 -86a -86b nδ 83a -2δ--nδ— ∘ 0

U.S. Patent

FIG. 100

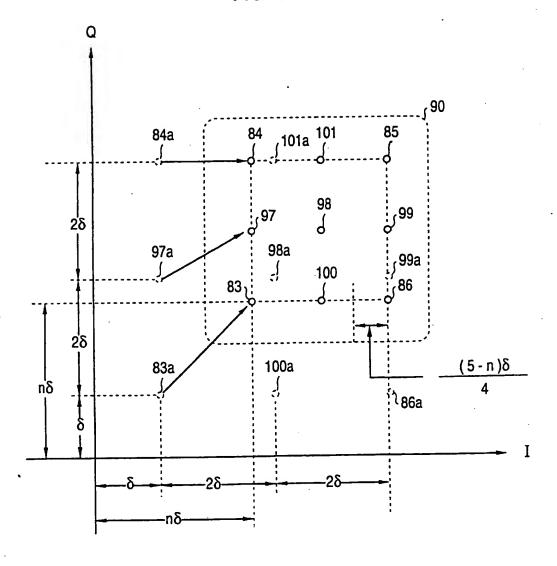
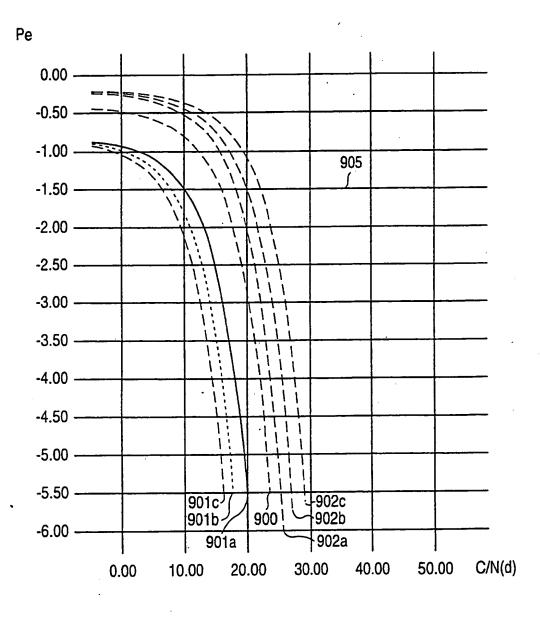


FIG. 101



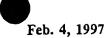


FIG. 102

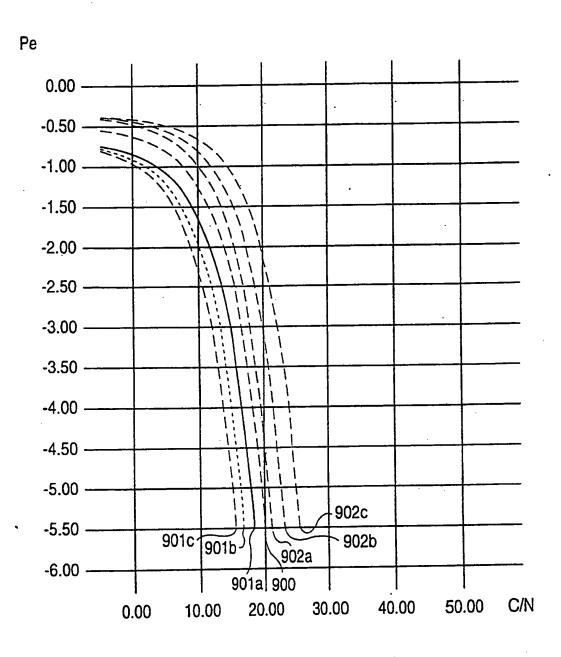


FIG. 103

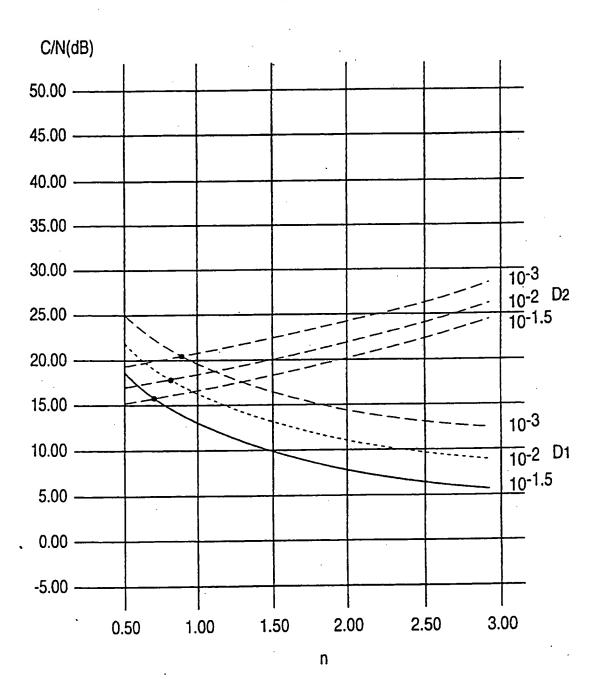
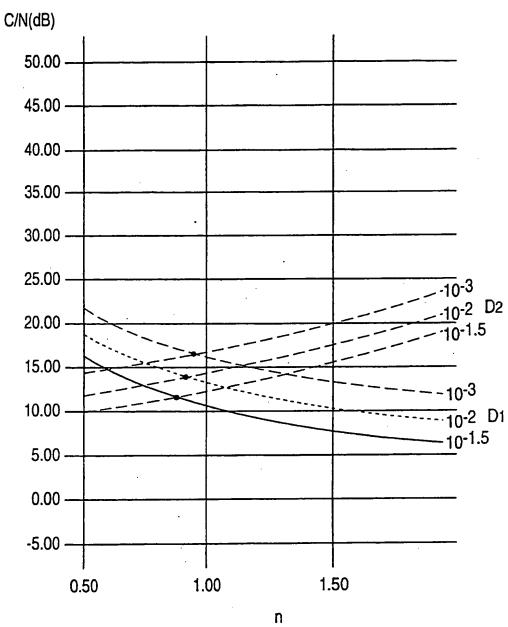
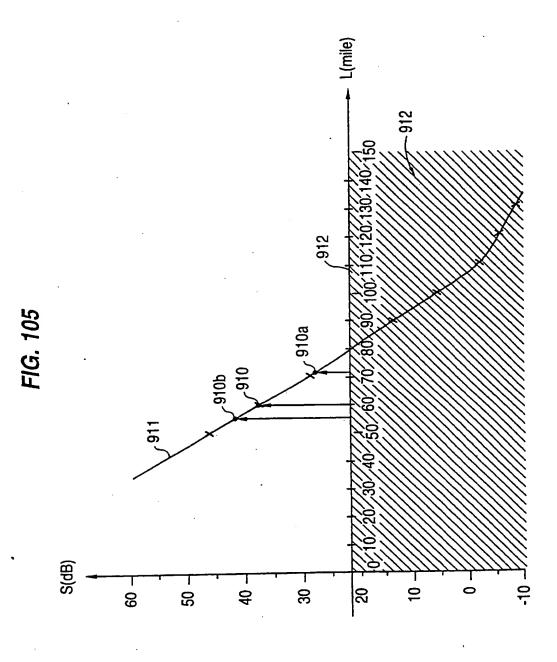


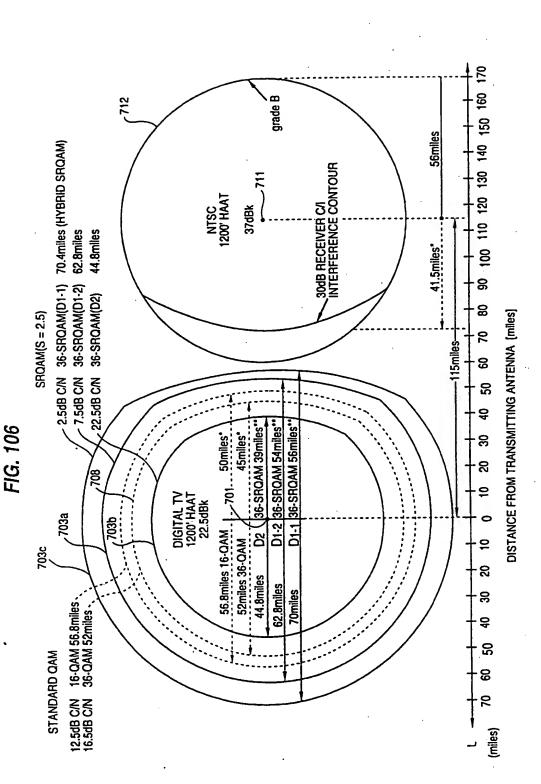


FIG. 104

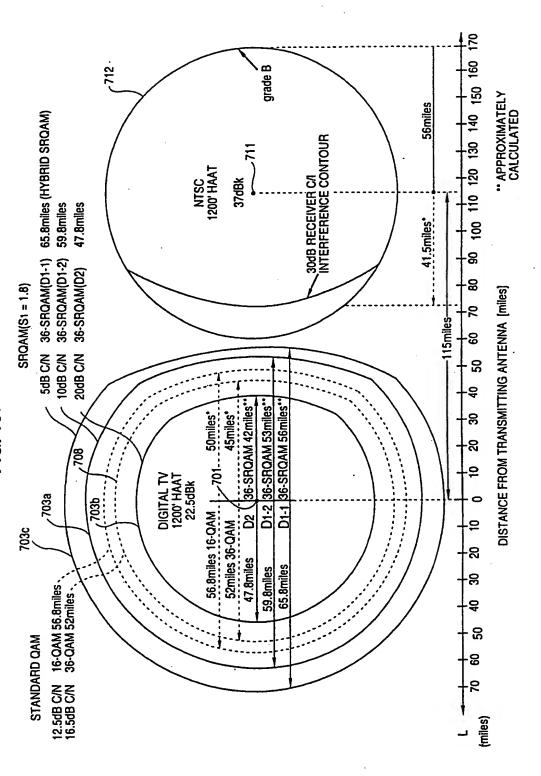


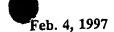


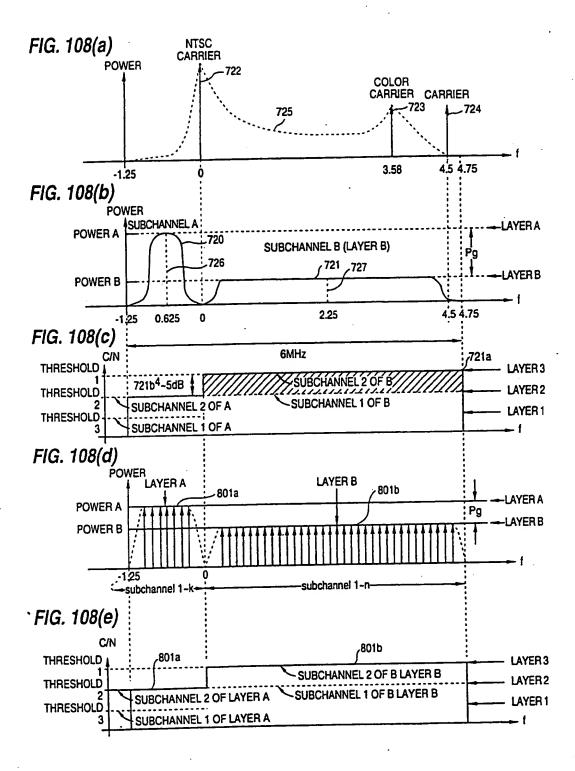




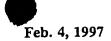


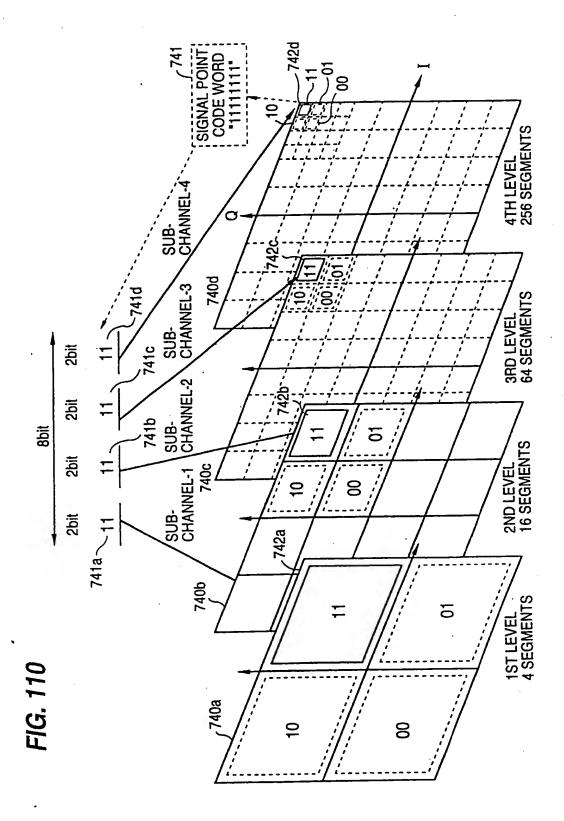






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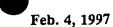
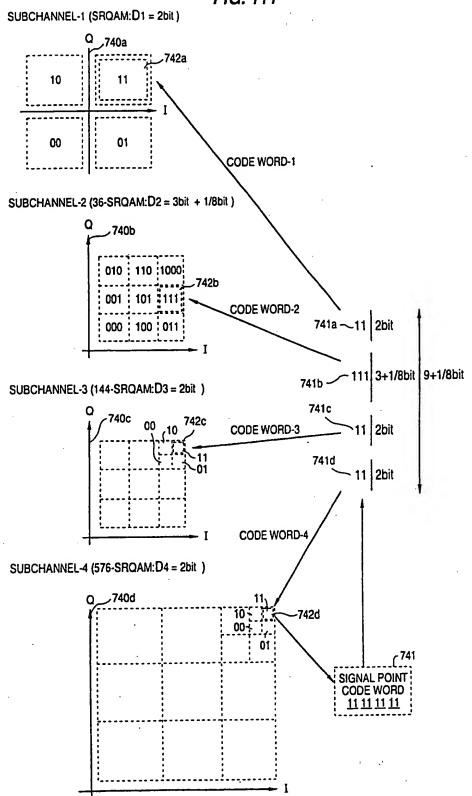


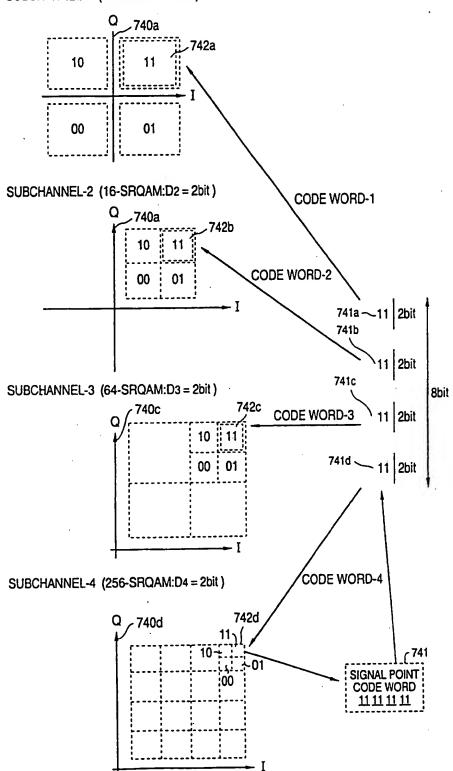
FIG. 111

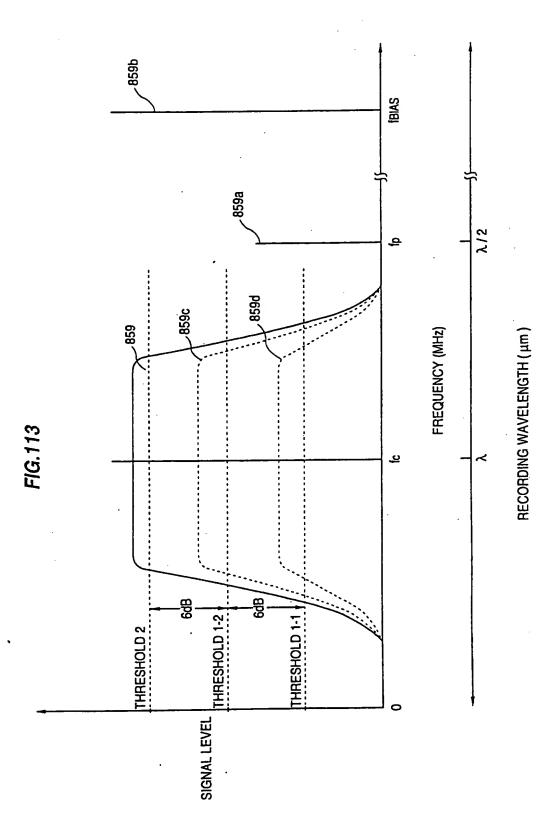


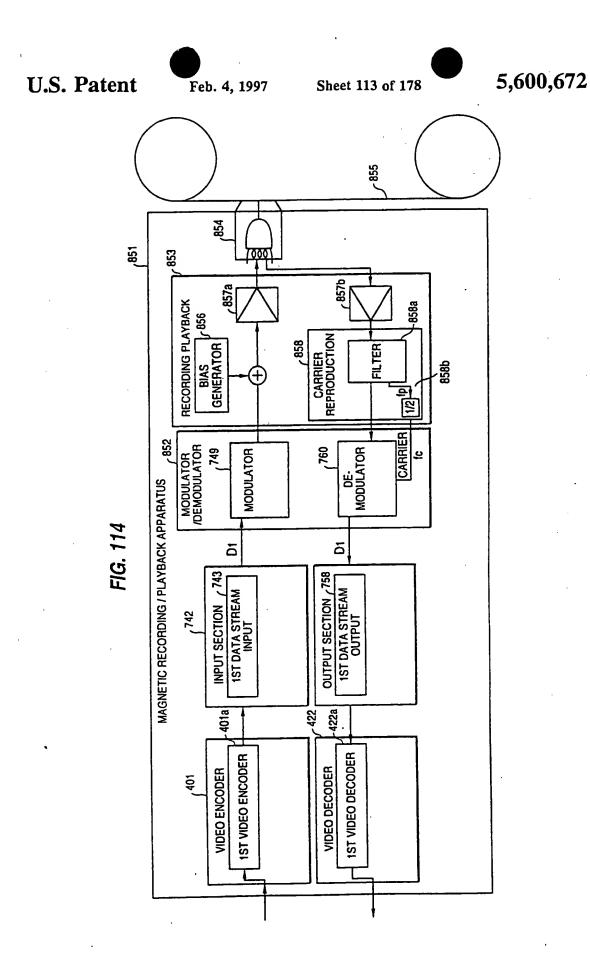
Feb. 4, 1997

FIG. 112

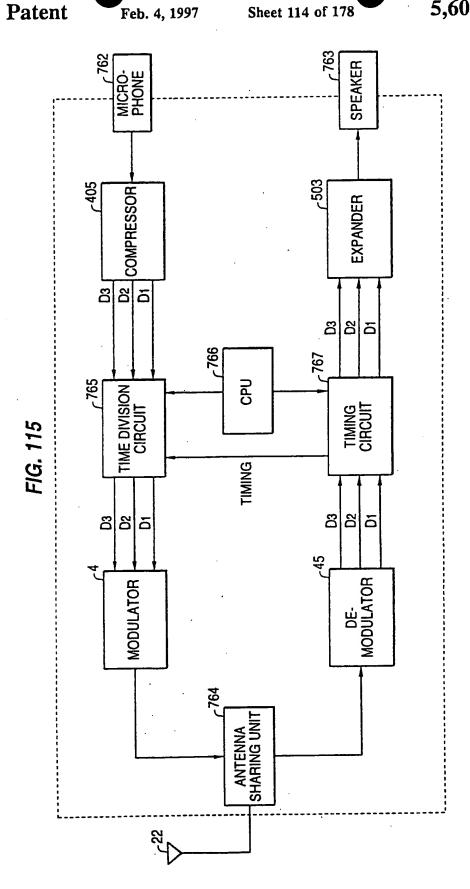
SUBCHANNEL-1 (SRQAM:D1 = 2bit)









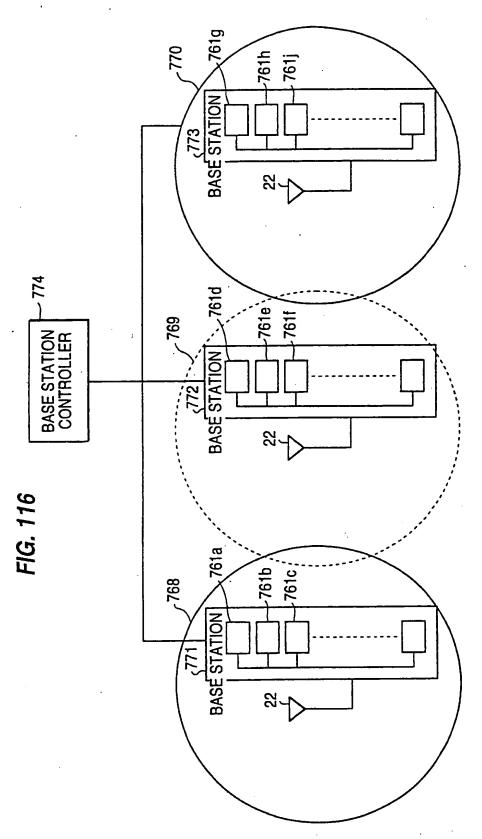


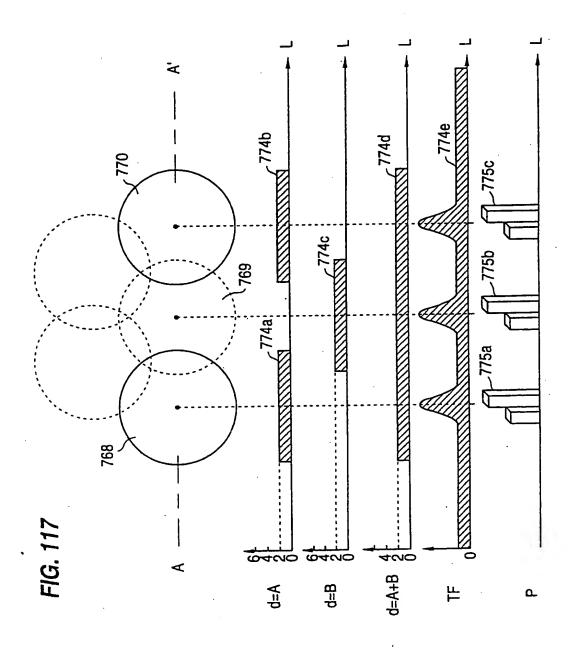
U.S. Patent



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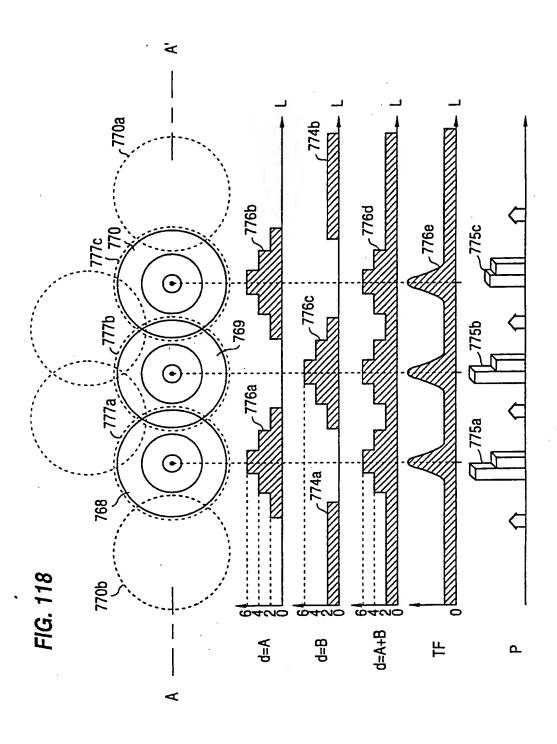


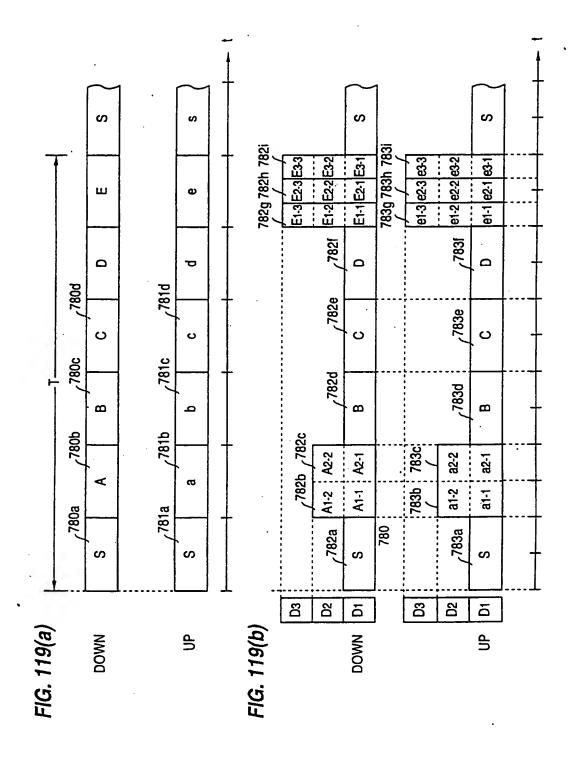


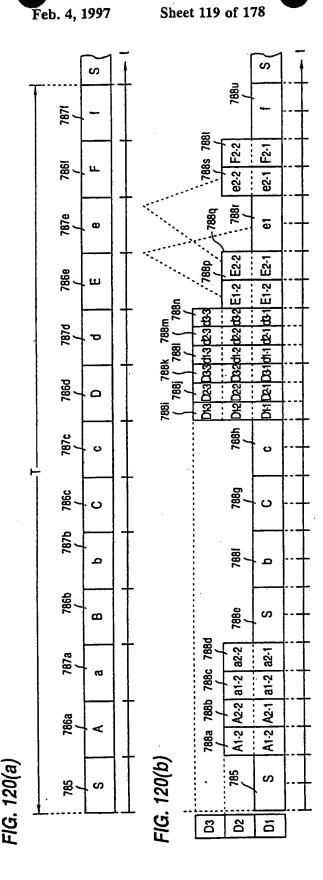


U.S. Patent

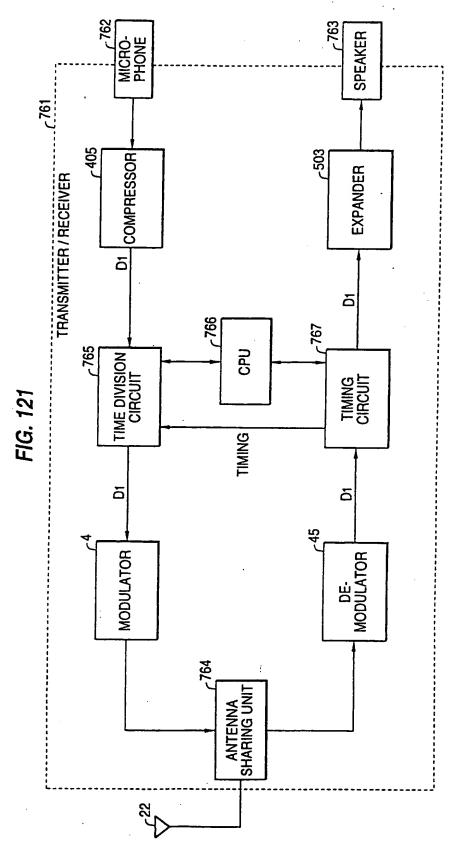


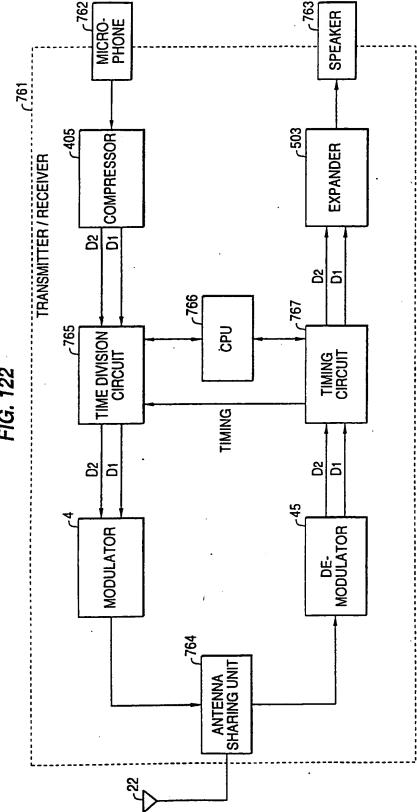


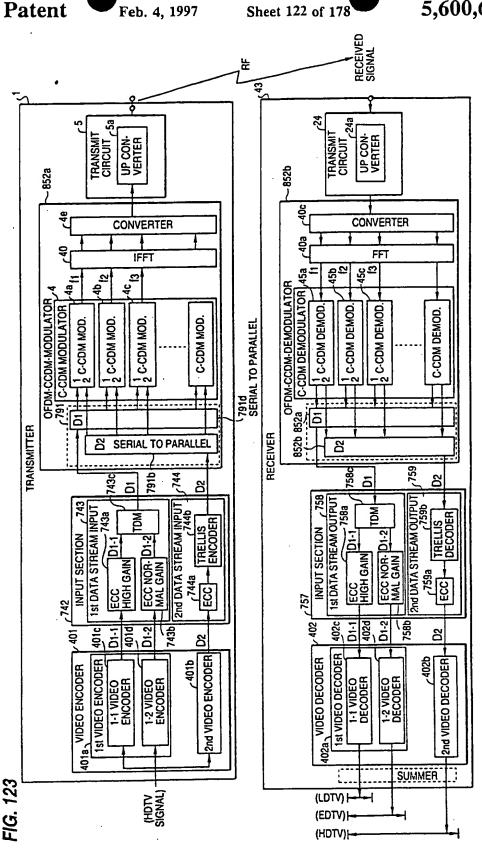


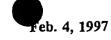


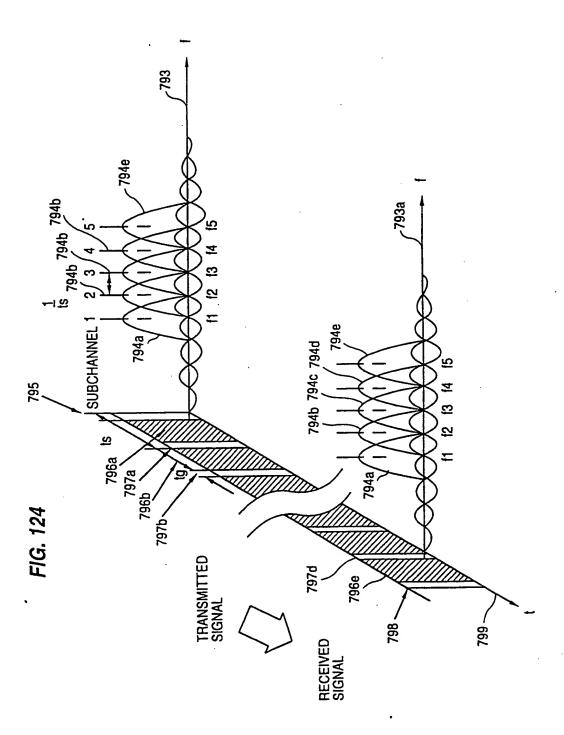
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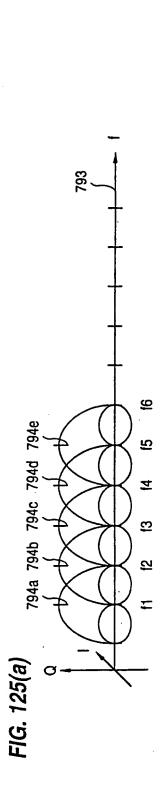


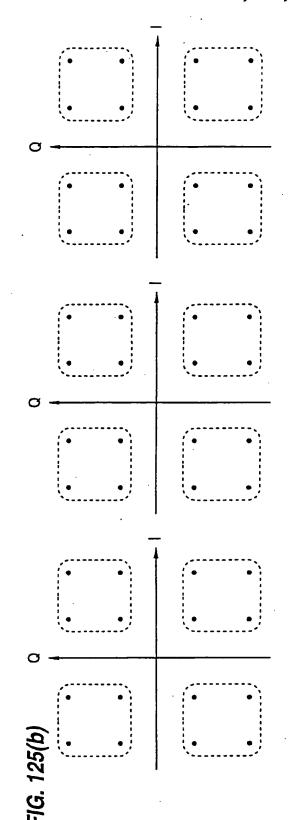


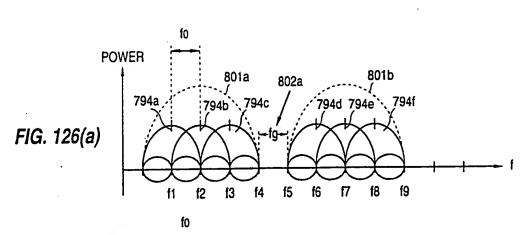


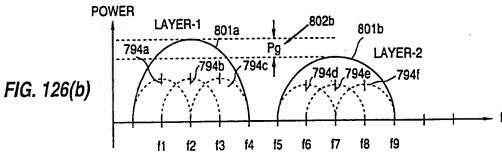


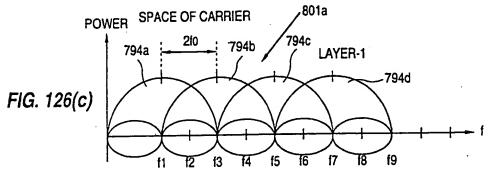
Red Lin In American

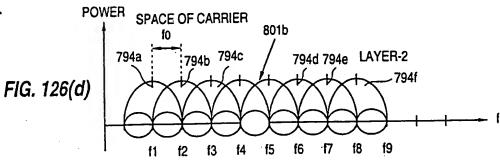












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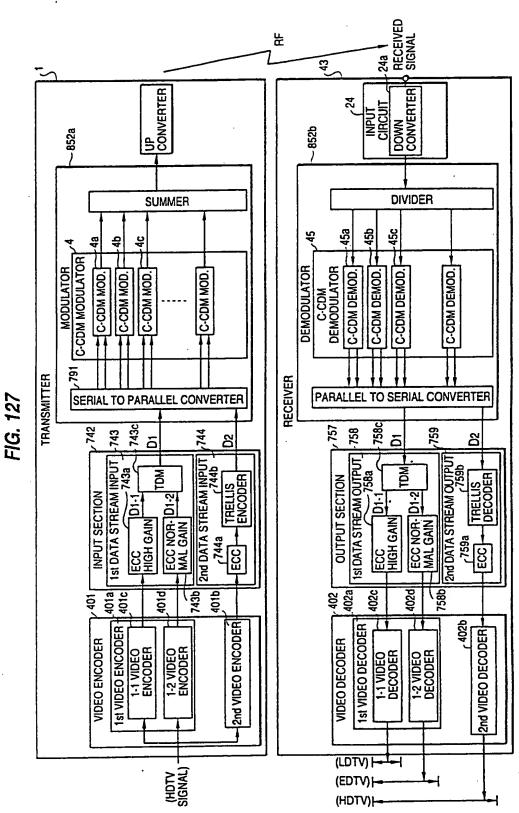




FIG. 128(a)

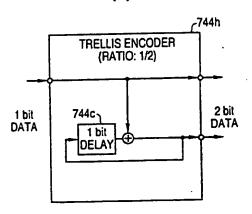


FIG. 128(d)

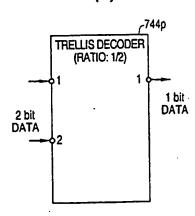


FIG. 128(b)

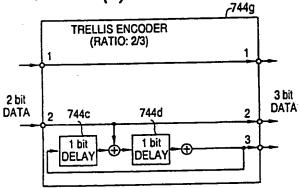


FIG. 128(e)

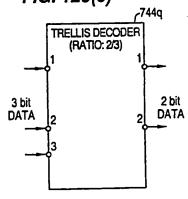


FIG. 128(c)

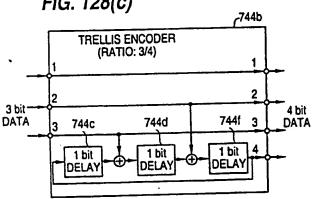
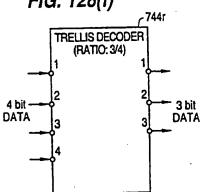
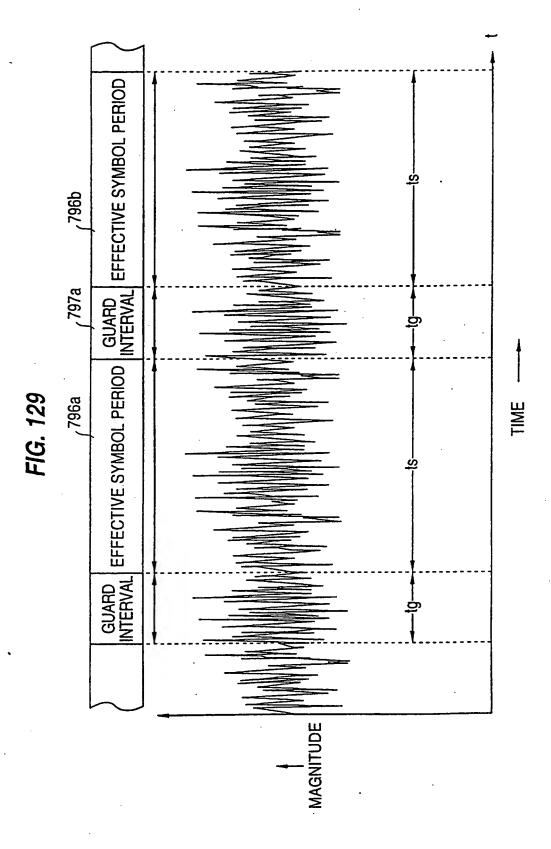
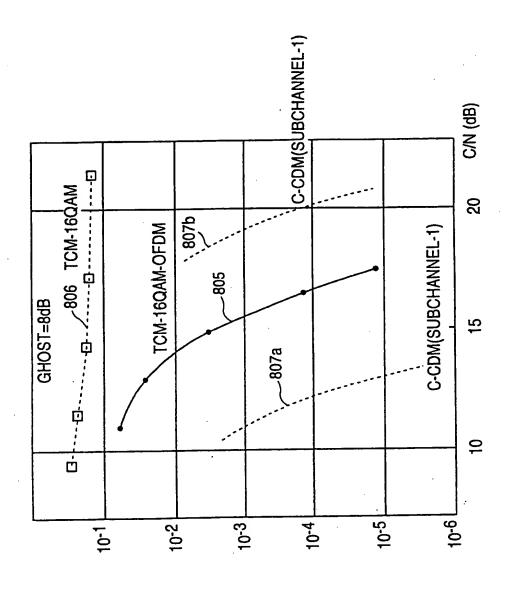


FIG. 128(f)









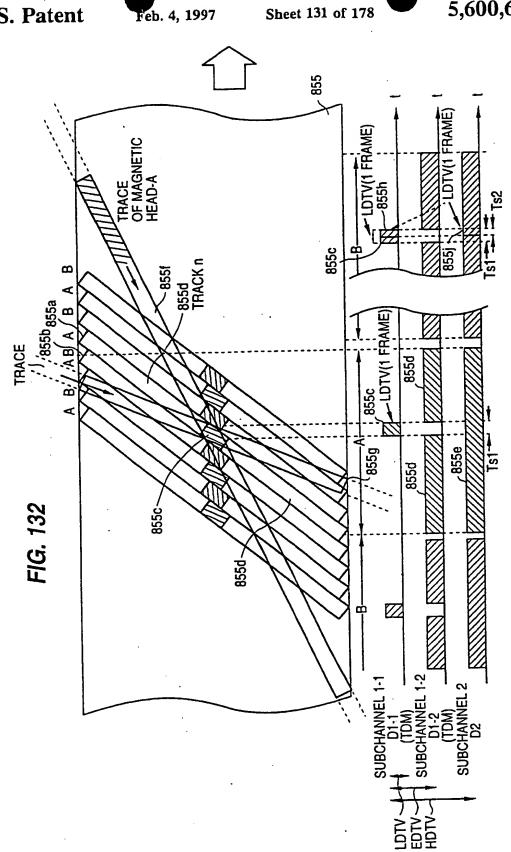
(EDTV)+

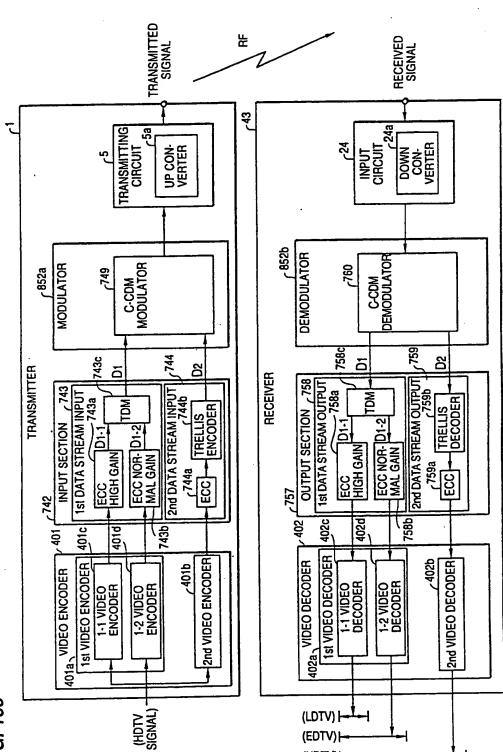
.

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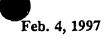


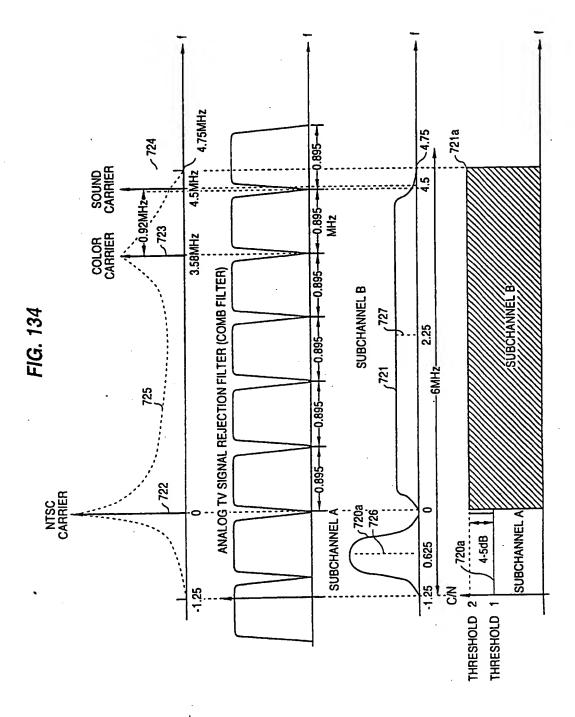


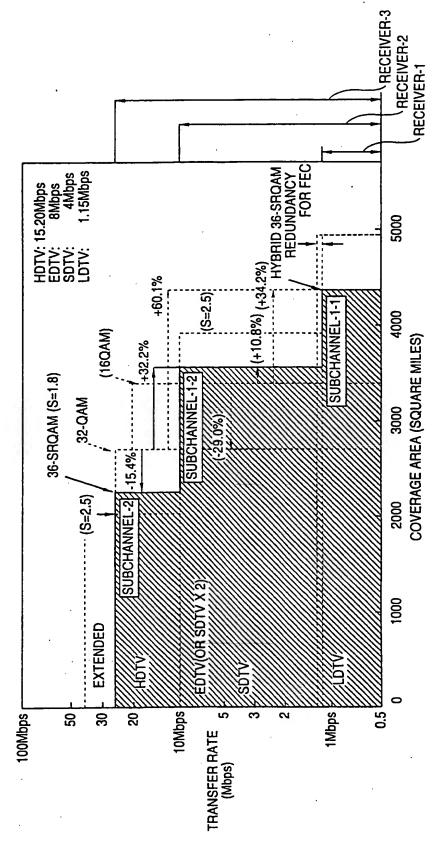


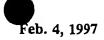
(HDTV)

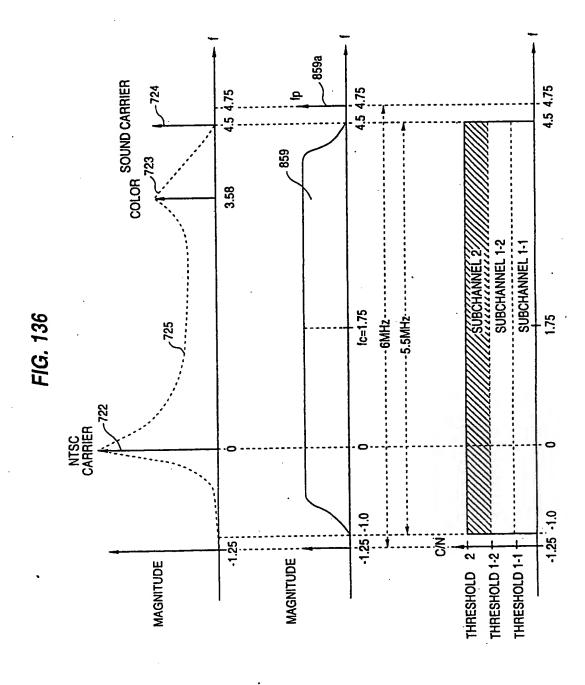
FIG. 133

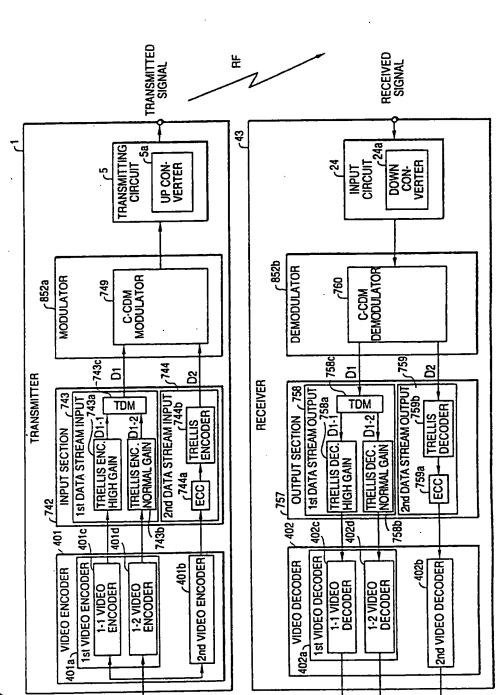












(LDTV) |-(EDTV) |-(HDTV) |-

FIG. 137

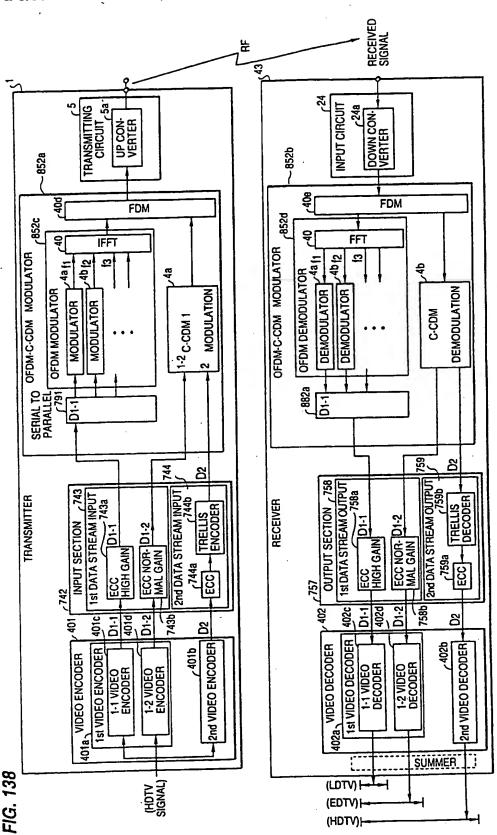
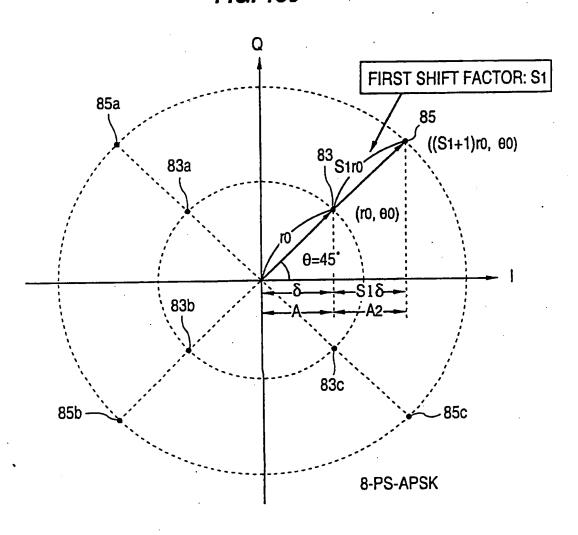


FIG. 139



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FIG. 140

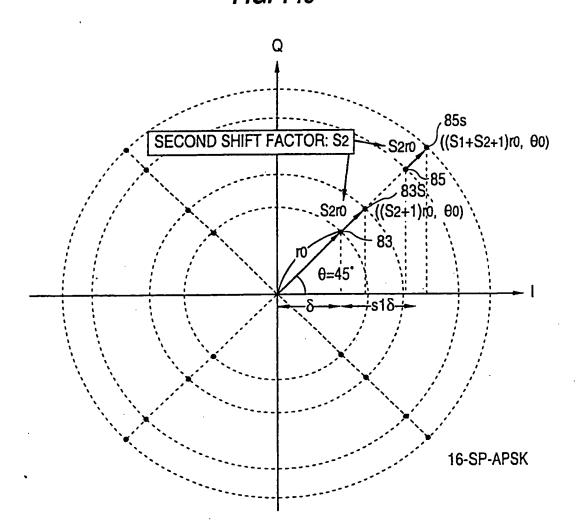


FIG. 141

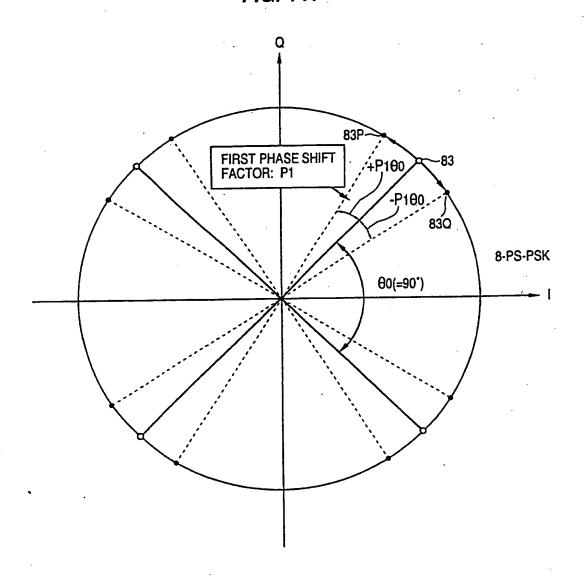
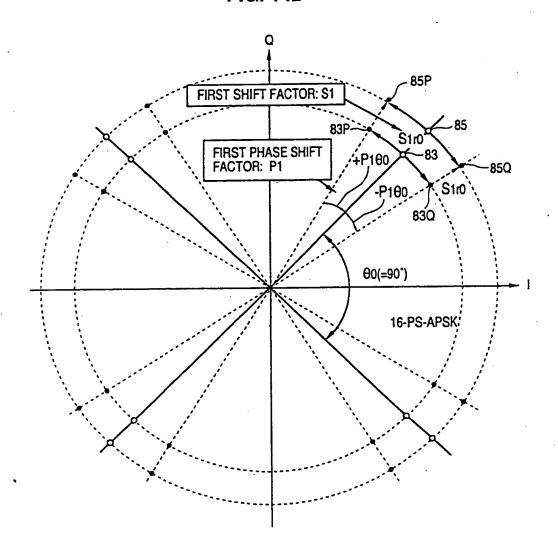
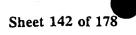
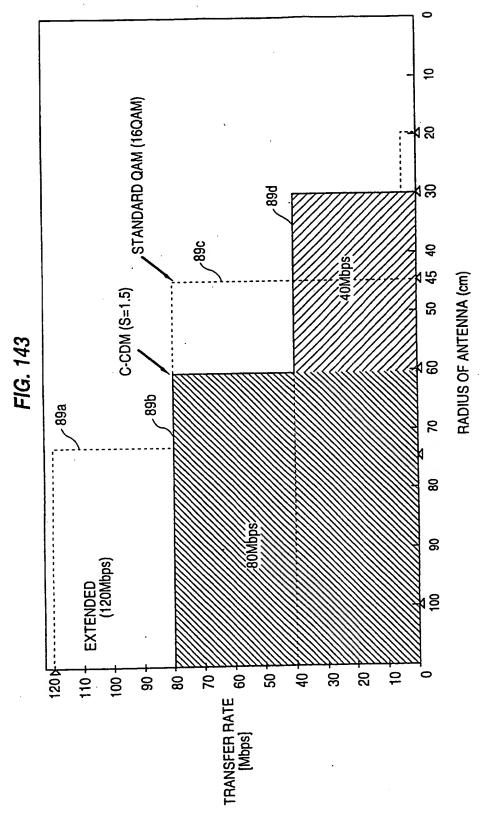


FIG. 142







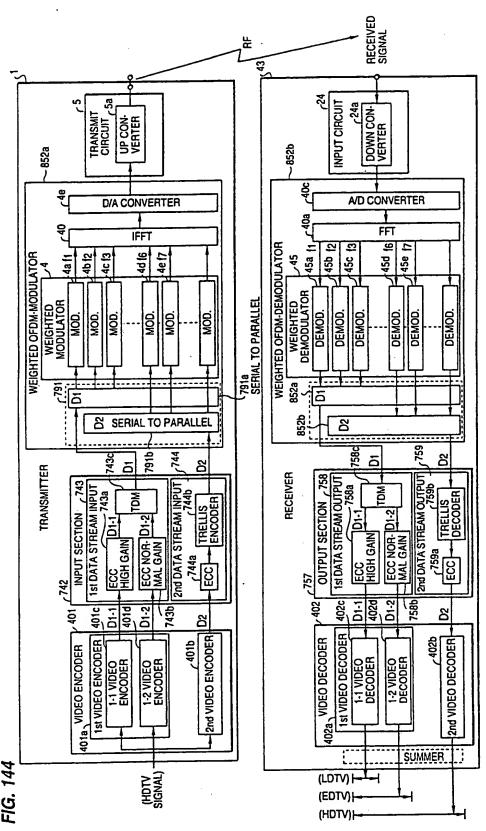


FIG. 145(a)

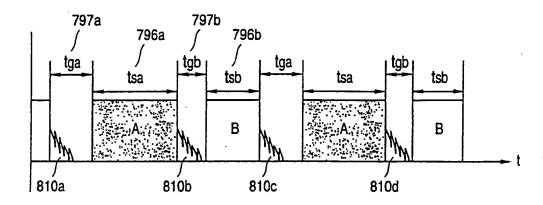
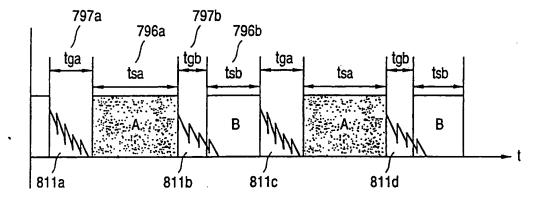
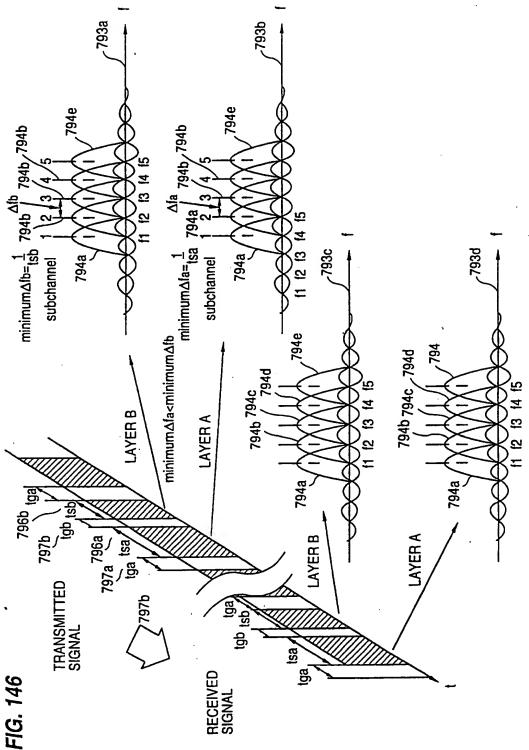


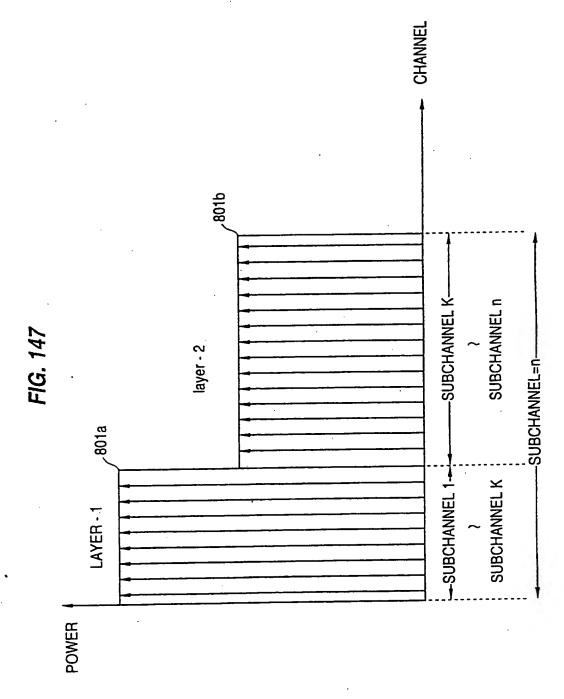
FIG. 145(b)

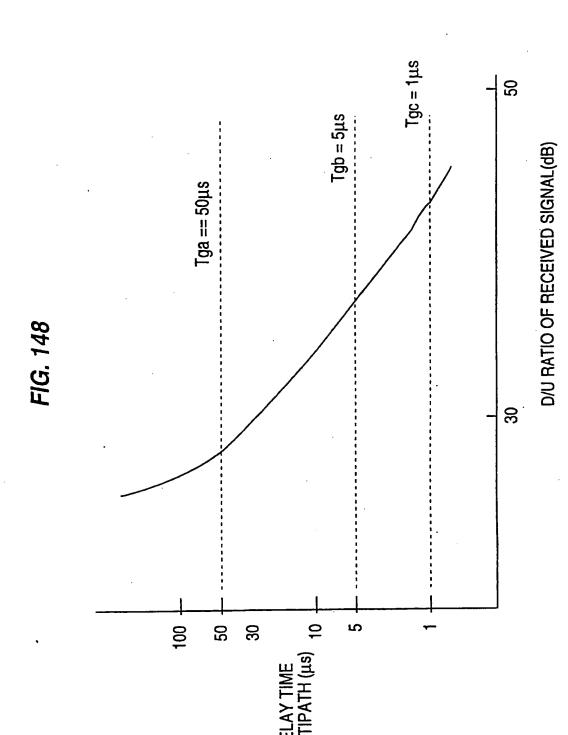


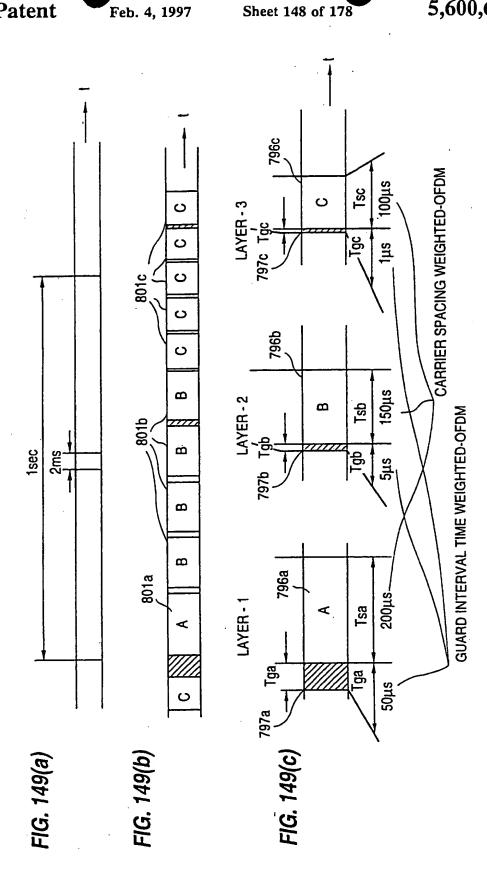


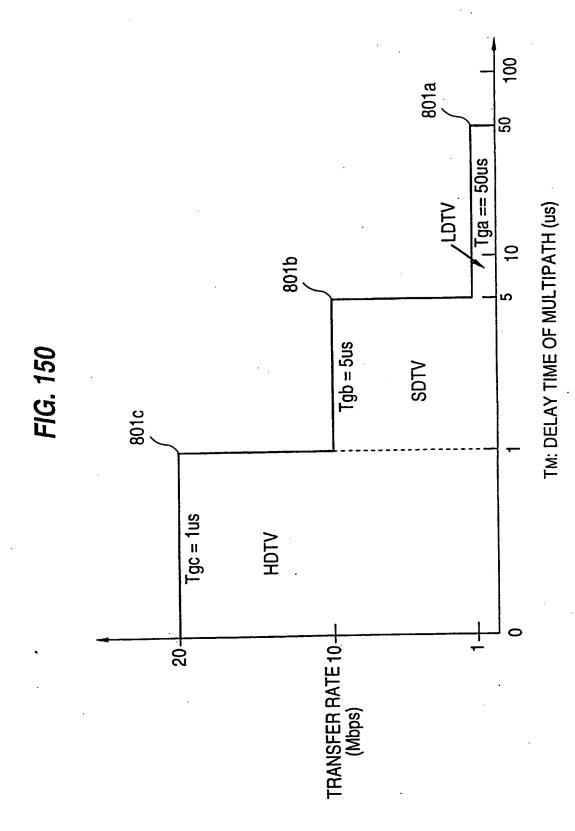




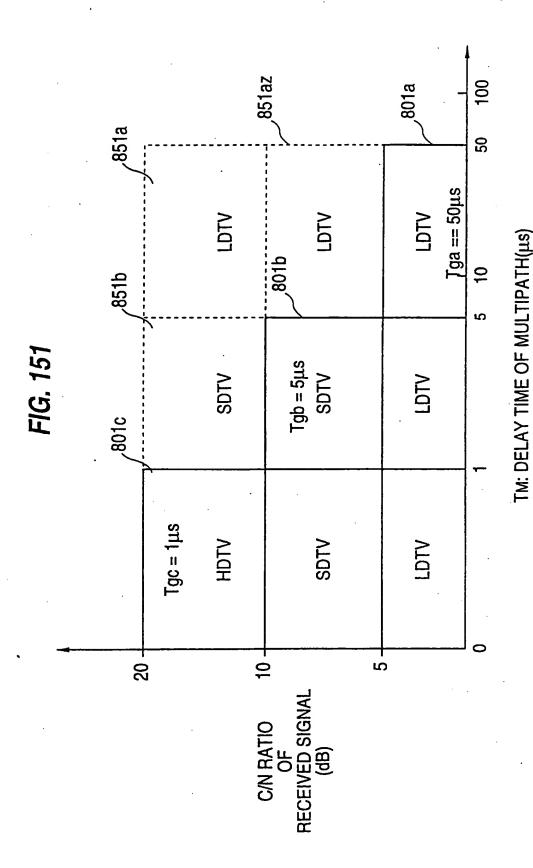


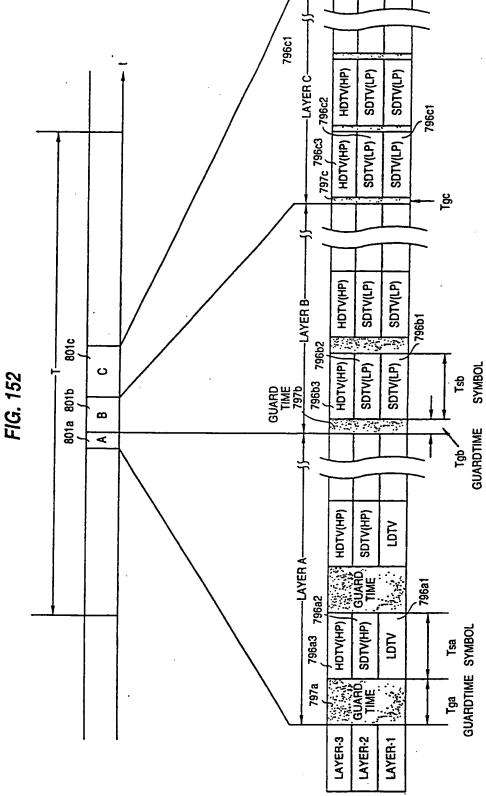


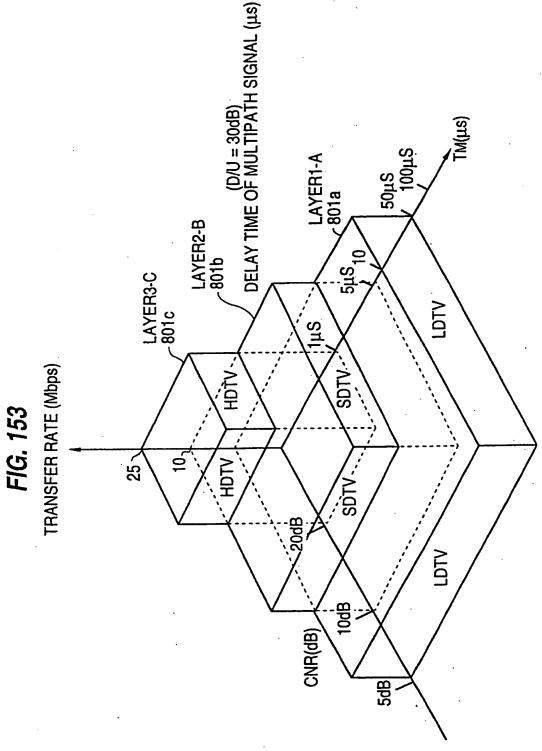


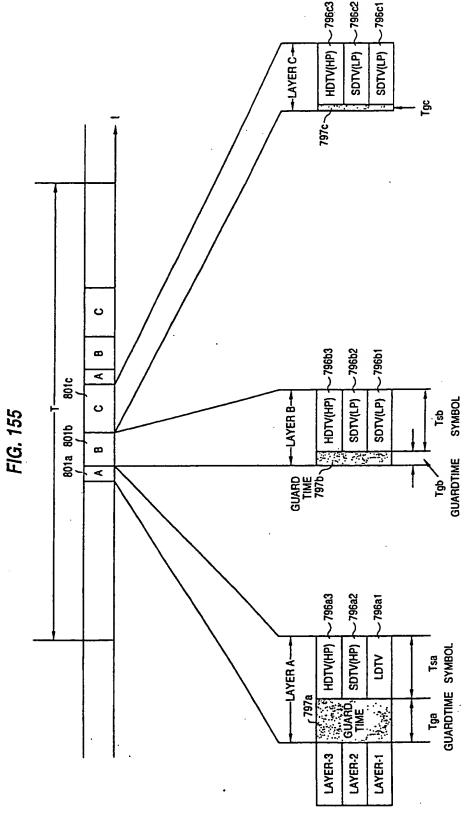












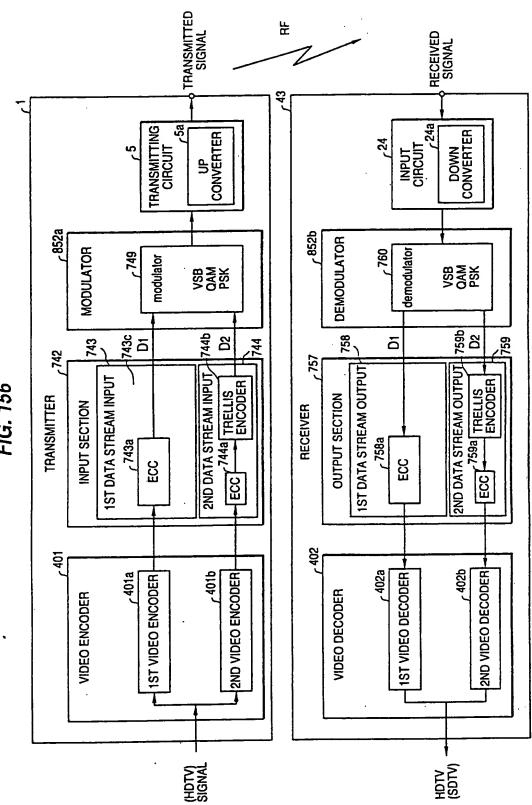
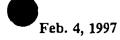
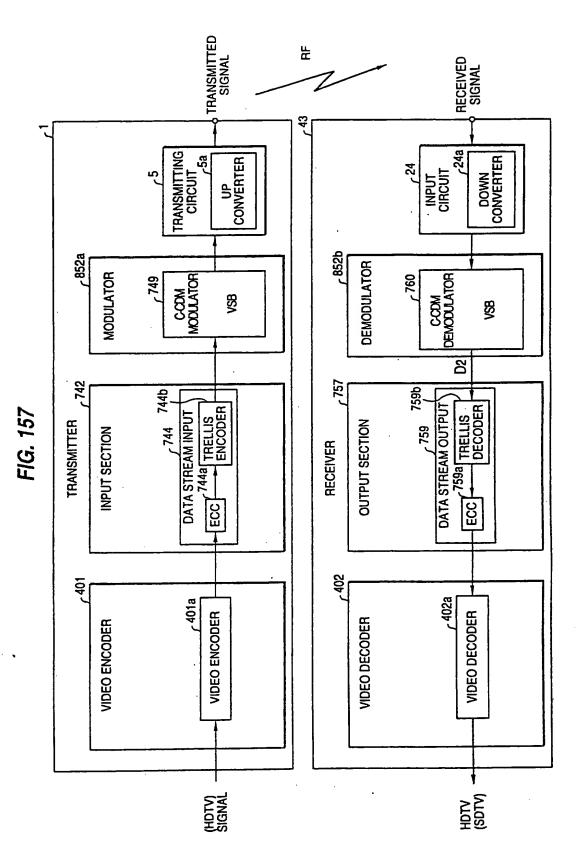
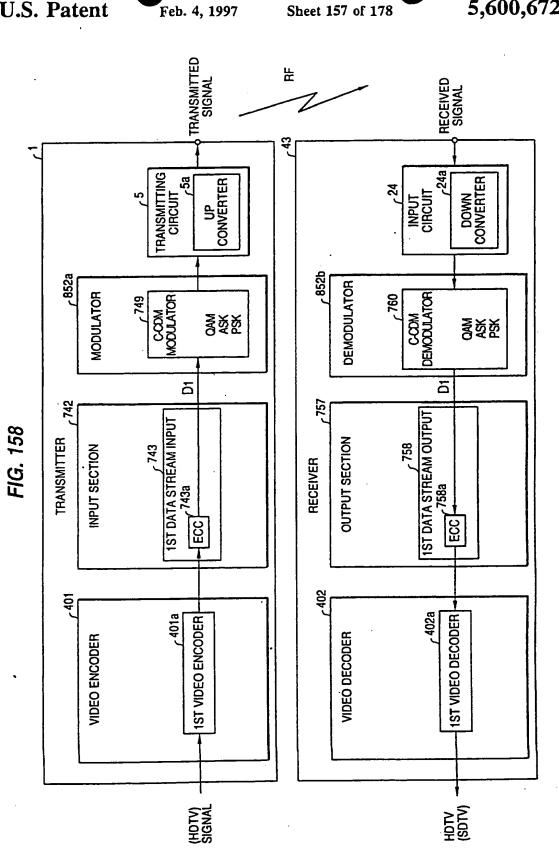


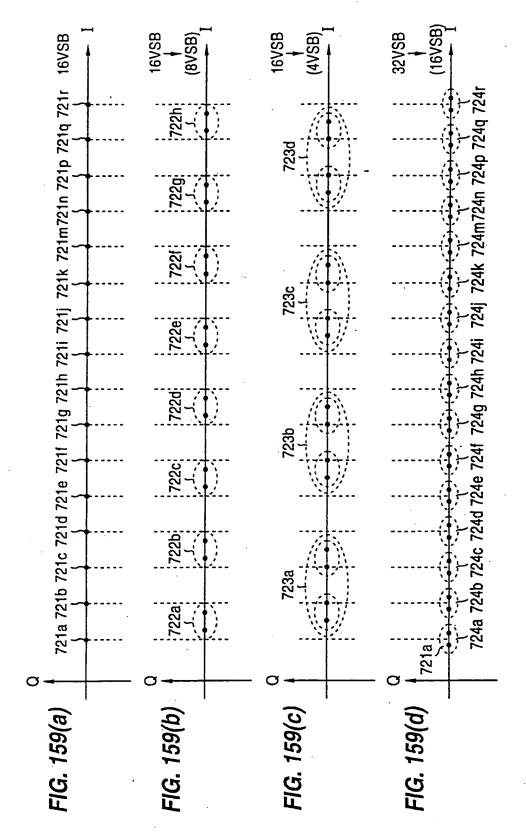
FIG. 156





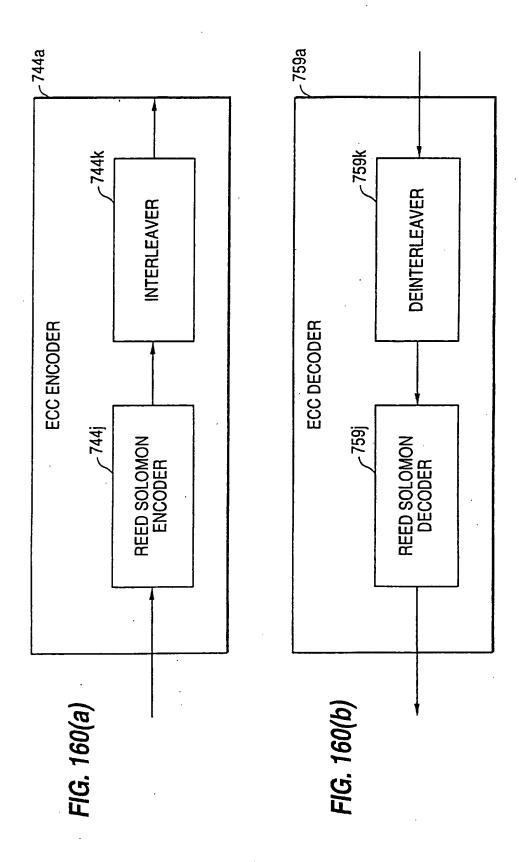
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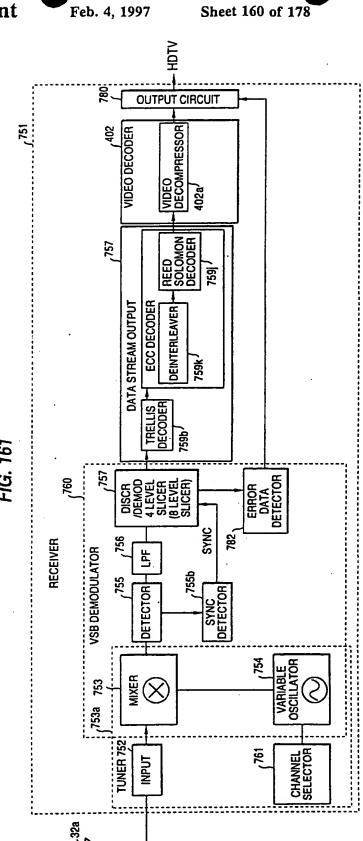




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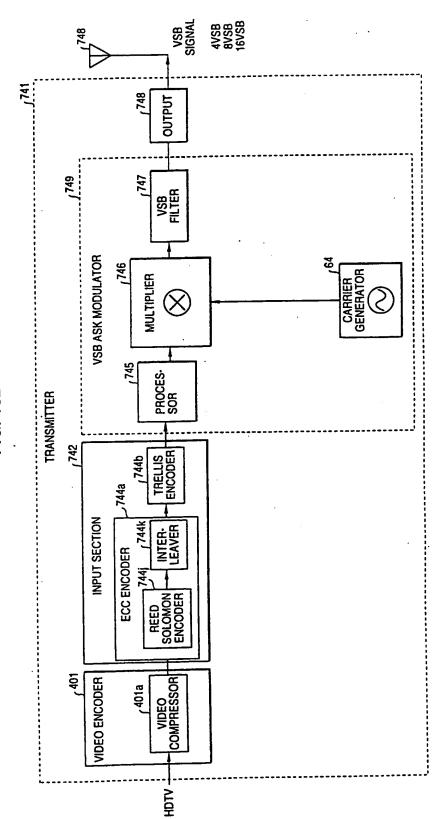
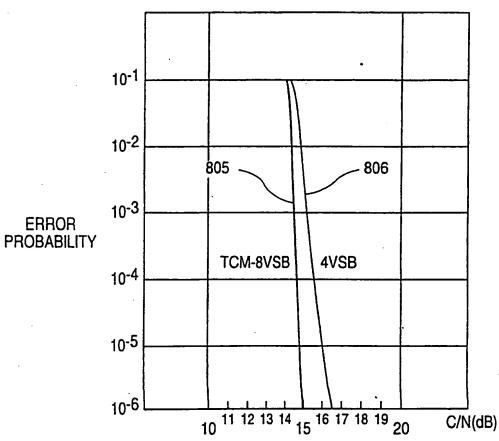
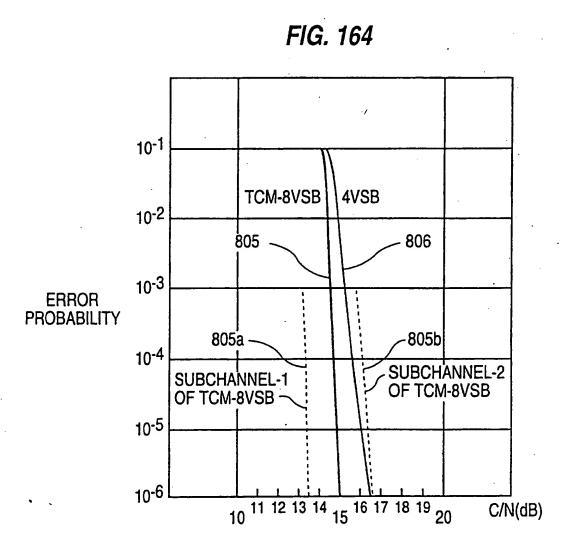


FIG. 162



FIG. 163







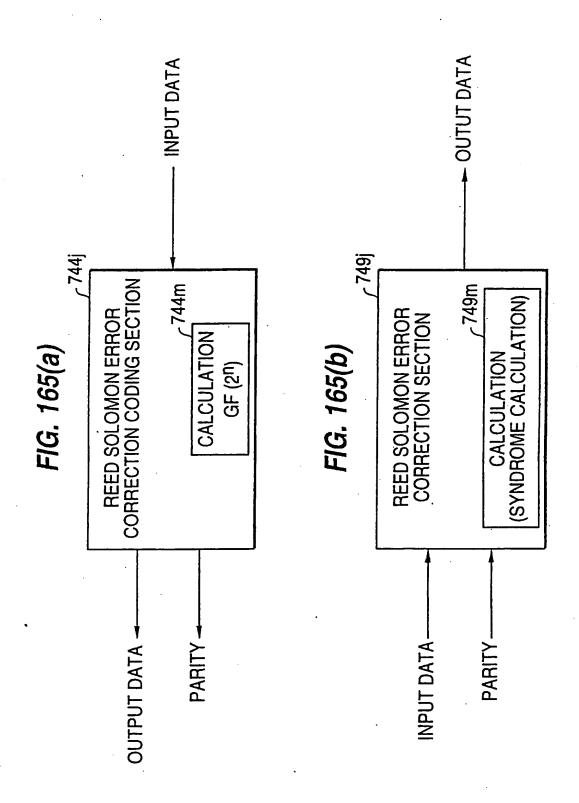
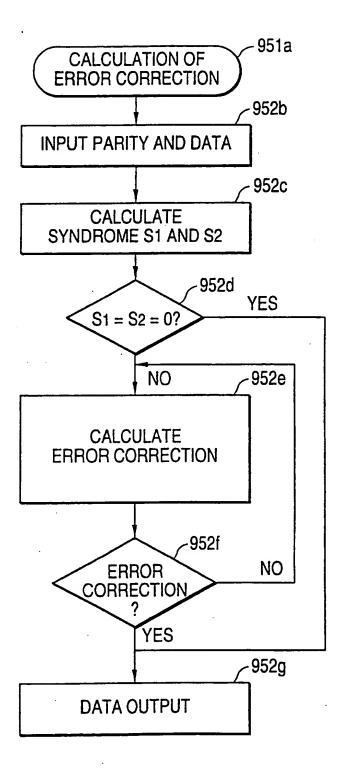
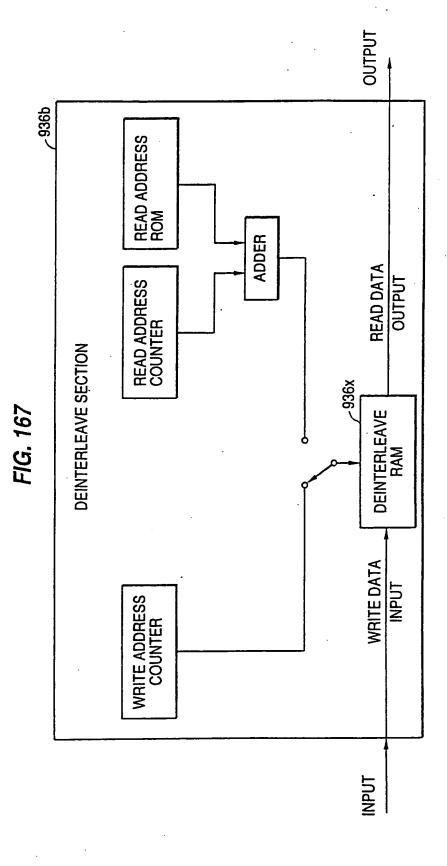
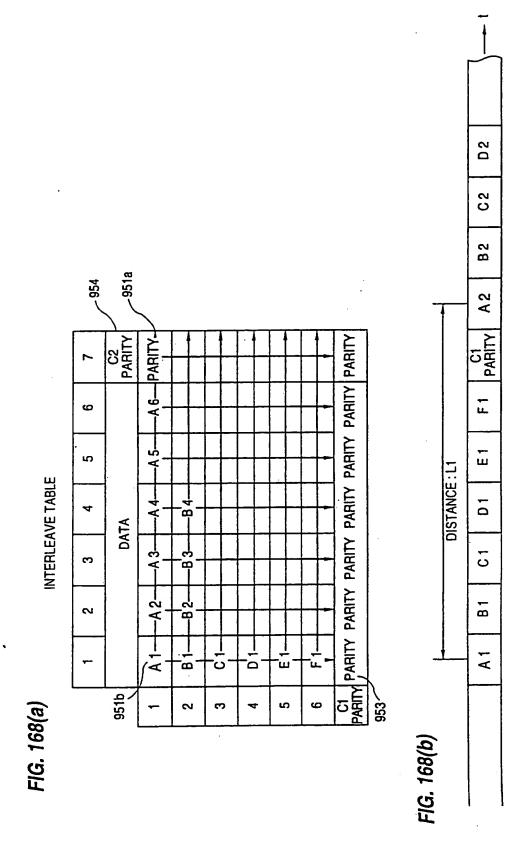


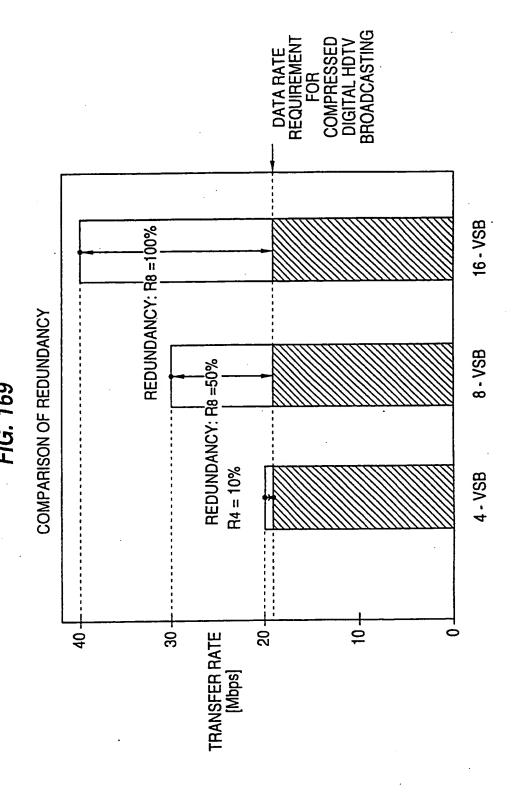
FIG. 166

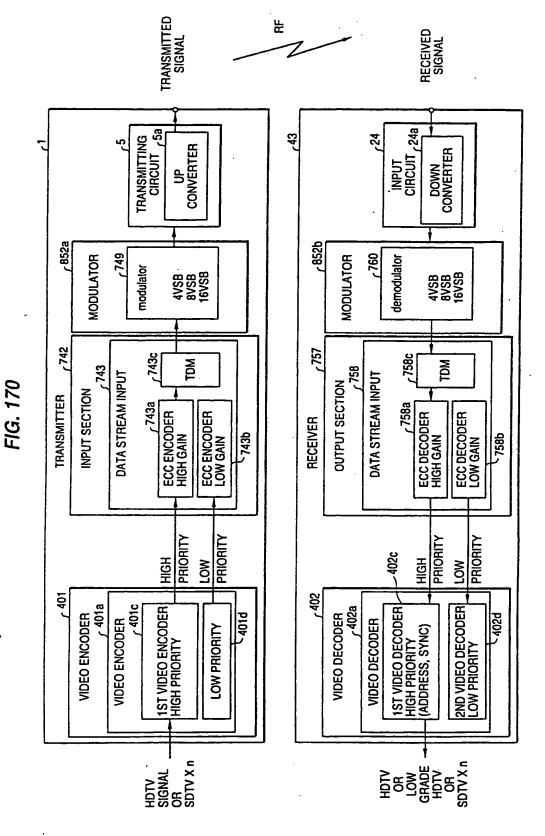


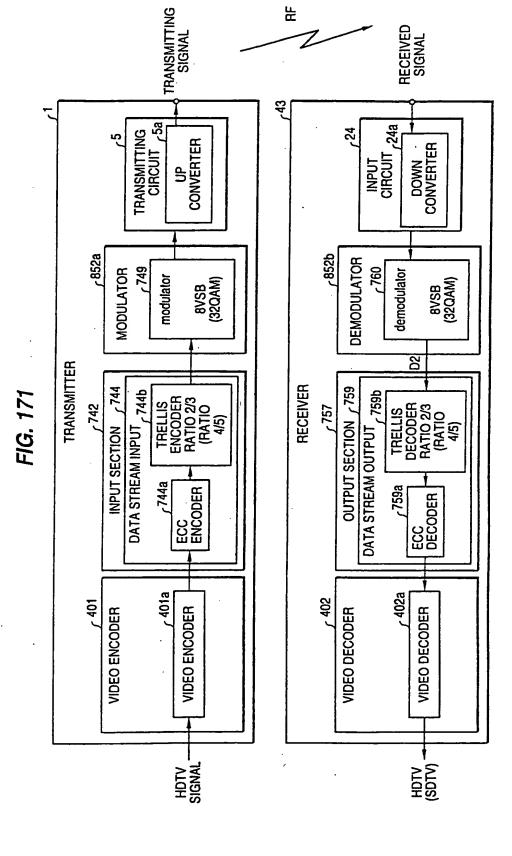
Feb. 4, 1997

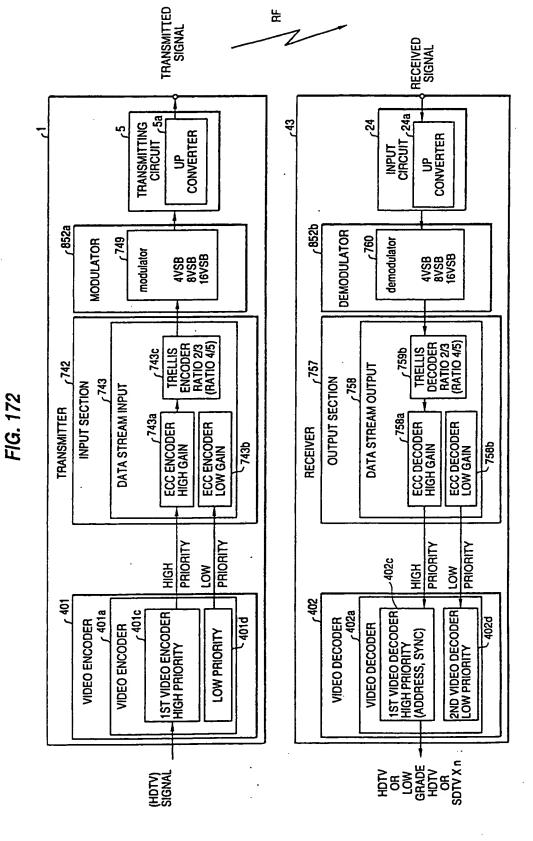












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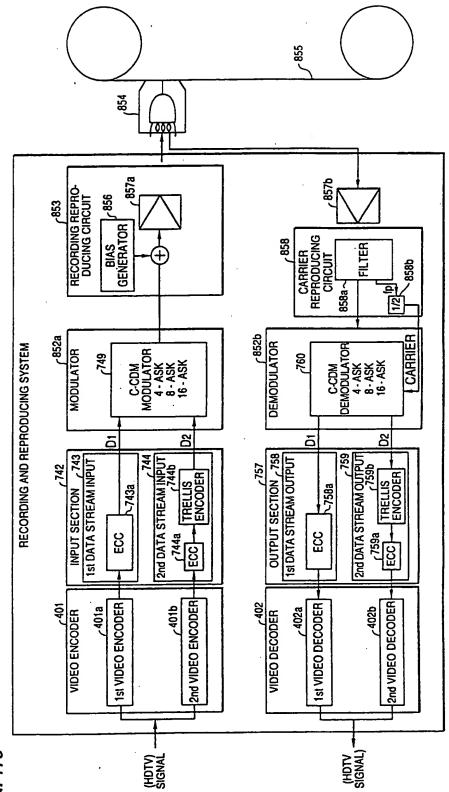


FIG. 173

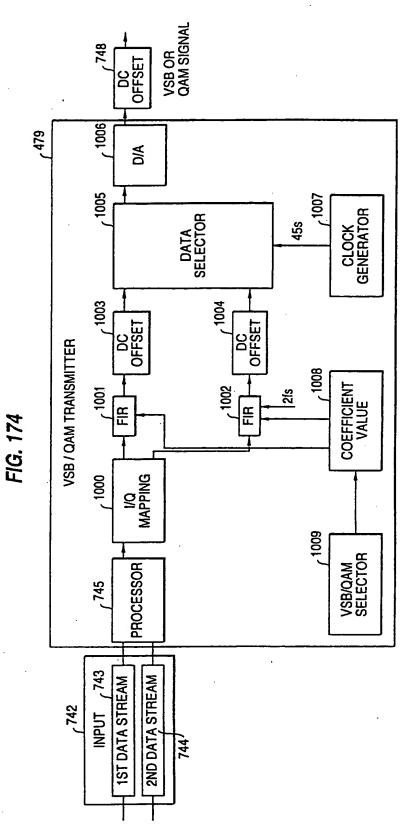
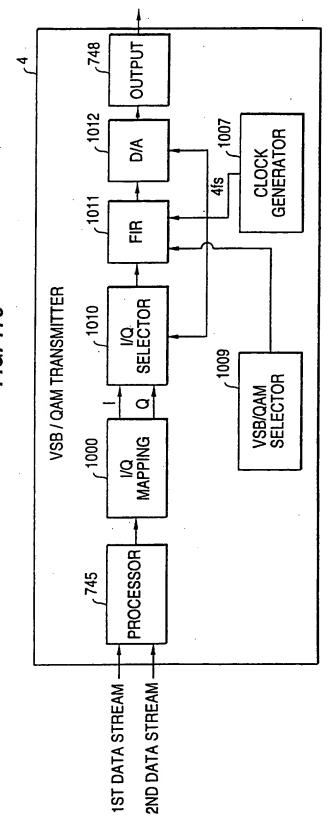
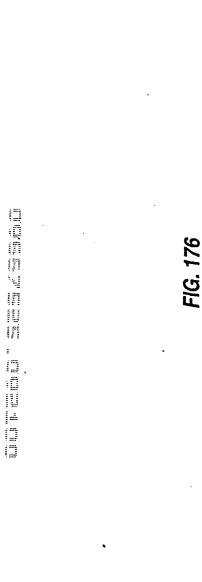
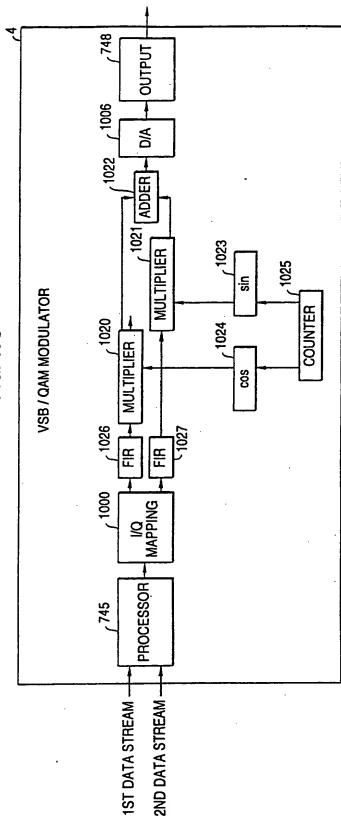
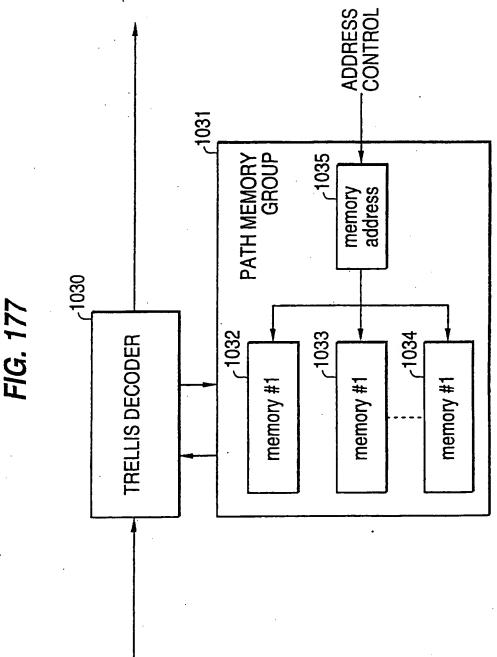


FIG. 175

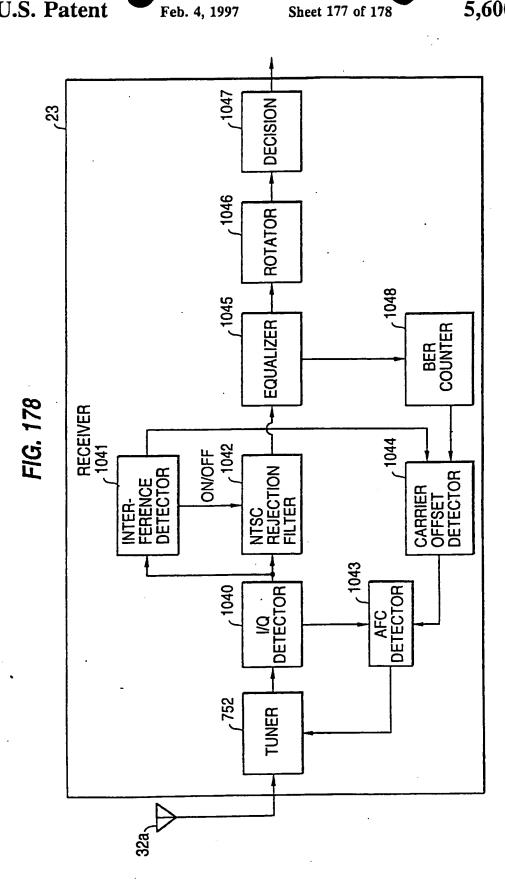








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DECISION 1062 AFC DET C/N DETECTOR RS DECODER EQUALIZER CLOCK REPRODUCER AGC DET ROLL OFF FILTER **VSB/OAM RECEIVER** GATE SIGNAL AFC CLOCK 10 E T- A/D 1053 CONVERTER VSB SAW

FIG. 179

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